

MATERIAL FILE
DOSSIER MATIERES

He Vessel

DRAWING N° N° PLAN	ITEM N° Repère N°	CERTIFICATE N° Certificat N°
317111-JLA-703-002	703-002	62220
317111-JLA-703-003	703-003	62221
317111-JLA-703-004	703-004	62218-62352-62434-60983-60337
317111-JLA-703-005	703-005	62218-62352-62434-60983
317111-JLA-703-013	703-013	63106-62330-63105
317111-JLA-703-046	703-046	62366-62331-63099
317111-JLA-703-042	703-042	62220
317111-JLA-703-048	703-048	62220
317111-JLA-703-050	703-050	62367
317111-JLA-703-039	703-039	62317
317111-JLA-703-041	703-041	62317
317111-JLA-703-040	703-040	62325-62326-62327-62328
317111-JLA-703-049	703-049	62317

He Vessel neck S/A

DRAWING N° N° PLAN	ITEM N° Repère N°	CERTIFICATE N° Certificat N°
317111-JLA-703-017	703-017	62330
317111-JLA-703-018	703-018	62409
317111-JLA-703-020	703-020	62368
317111-JLA-703-021	703-021	customer supply
317111-JLA-703-022	703-022	62409
317111-JLA-703-023	703-023	62409
317111-JLA-703-024	703-024	62330
317111-JLA-703-025	703-025	customer supply
/	9009	62329

MATERIAL IDENTIFICATION
Identification matières**Welding wires**

Material Désignation	CERTIFICATE N° Certificat N°
ER316L - Wire Ø2 (heat N°U2TG142297)	62880
ER316L - Coil Ø1,2 (heat N°217640-45344)	62900

91154/31649

OUTOKUMPU


CERTIFICATE - ZEUGNIS - CERTIFICAT

Invoice No. Page
Rechnung Nr. Seite
N° du certificat Page
6610/1352212 1/1

Business Unit / QCM
Avesta Works / Johan Nordström

Date Datum Date
25-Apr-2013

Load, Ladung, Charge No Acknowledged ID, Bestätigung, Commande ID
FR/FR30-0103 6610/320827

Your ref. Ihre Ref., Votre ref 206375/NB		Requirements, Anforderungen, Exigences ASTM A 240-11a ASME SEC II PART A SA-240/SA-240M 2011a EN 10088-2:2005 EN 10028-7:2007 AD 2000 W2, W10 & EN 10028-7 NACE MR0175/ISO 15156-2009 EN ISO 9444-2 / ASTM A480M									
Buyer, Besteller, Acheteur OUTOKUMPU SAS 100, RUE PETIT FR FR-75165, PARIS CEDEX 19 FRANCE		SDMS n° 60337									
Consignee, Empfänger, Lieu de livraison OUTOKUMPU SAS											
Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur OUTOKUMPU	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poicon de l'expert 	Grade, Werkstoff, Nuance Outokumpu 18-8L TYPE 304 TYPE 304L 1.4301 1.4307								
Product, Erzeugnisform, Produkt Stainless Steel Hot Rolled, Coil finish 1D, cut edge											
Line Reihe Ligne	Item Position Poste	Heat-Lot No Schmelz-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity / Unit Menge / Einheit Quantité / Unité						
1	3	431102-001	8,00 X 2000 mm	1	7390 KG						
Chemical composition - Chemische Zusammensetzung - Composition chimique											
	C	Si	Mn	P	S	Cr	Ni	Nb	Cu	Co	N
Heat	.017	.31	1.59	.029	.002	18.22	8.10	.008	.37	.130	.064
Radioactive contamination check acc. IAEA recommendations: Satisfactory											
Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1 MPa) F = Front - Anfan - Debut B = Back - Ende - Fin T = Transverse - Quer - Travers											
Test Ref	Temp	RP 0.2	RP 1.0	RM	A5	2"	HB				
	°C	N/MM2	N/MM2	N/MM2	%	%	HB				
Min	+20	230	260	520	45	40					
Max				700			201				
	F T	+20	321	375	630	54	55	178			
	B T		316	369	620	54	55	174			
Material conforms to NACE MR0175/ISO 15156 in supplied condition Corrosion acc. ASTM A 262-E, EN ISO 3651-2A: Satisfactory Heat treatment / Solution annealed: Material temperature 1100 °C / Quenched (forced air + water) Steel grade verification (PMI-spectroscopic): OK Marking, visual insp. and gauge measurement: Satisfactory Approved acc. AD 2000 Merkblatt W0 by TÜV NORD Systems with renounce of countersignment Certified acc. Pressure Equipment Directive (97/23/EC) by TÜV CERT-Certification body for pressure equipment of the TÜV NORD Systems; notified body, reg-no. 0045.											



Handwritten signature

Outokumpu Stainless AB Telephone: + 46 (0)228 814 77
Business Unit Special Coil Fax: + 46 (0)228 813 16
BOX 74, S-774 22 AVESTA V.A.T no: SE558001874801
SWEDEN
Regoffice: Stockholm SWEDEN, Regno: 558001-8748

This material is found to comply with order requirements

Mats Hjelm

Mats Hjelm
Authorized Inspector



n° cde: 92137/31838



CERTIFICATE - ZEUGNIS - CERTIFICAT
EN 10204-3.1
 2207972-EN

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 6610/1354655 1/1

Business Unit / GCM Avesta Works / Johan Nordström Date Datum Date 27-Sep-2013 Load, Ladung, Charge No. FR/FR30-0198 Acknowledged ID, Bestätigung, Commande ID 6610/321818

Your ref, Ihre Ref., Votre ref 206612/NB	Requirements, Anforderungen, Exigences ASTM A 240-13a ASME SEC II PART A SA-240/SA-240M 2011a EN 10088-2:2005 EN 10028-7:2007 AD 2000 W2, W10 & EN 10028-7 NACE MR0175/ISO 15156-2009 EN ISO 9444-2 / ASTM A480M
Buyer, Besteller, Acheteur OUTOKUMPU SAS 100, RUE PETIT FR FR-75165, PARIS CEDEX 19 FRANCE	SDMS n° 60983
Consignee, Empfänger, Lieu de livraison OUTOKUMPU SAS	

Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur outokumpu	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poison de l'expert 	Grade, Werkstoff, Nuance Outokumpu 18-8L TYPE 304 TYPE 304L 1.4301 1.4307
--	--	---	--

Product, Erzeugnisform, Produkt
 Stainless Steel Hot Rolled, Coil-Plate
 finish 1D, cut edge

Line Reihe Ligne	Item Position Poste	Heat-Lot No Schmelz-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity / Unit Menge / Einheit Quantité / Unité
1	8	432445-002	10,00 X 2000 X 4000 mm	10	6338 KG

Chemical composition - Chemische Zusammensetzung - Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Nb	Cu	Co	N
Heat	.020	.36	1.56	.030	.001	18.28	8.13	.012	.34	.140	.060

Radioactive contamination check acc. IAEA recommendations: Satisfactory

Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1 MPa) F = Front - Anfan - Debut B = Back - Ende - Fin T = Transverse - Quer - Travers

Test Ref	Temp °C	RP 0.2 N/MM2	RP 1.0 N/MM2	RM N/MM2	A5 %	2" %	HB HB
Min	+20	230	260	520	45	40	
Max				700			201
F T	+20	318	370	623	56	58	174
B T		318	367	619	58	60	174

Material conforms to NACE MR0175/ISO 15156 in supplied condition
 Corrosion acc. ASTM A 262-E, EN ISO 3651-2A: Satisfactory
 Heat treatment / Solution annealed: Material temperature 1100 °C / Quenched (forced air + water)
 Steel grade verification (PMI-spectroscopic): OK
 Marking, visual insp. and gauge measurement: Satisfactory
 Approved acc. AD 2000 Merkblatt W0 by TÜV NORD Systems with renouance of countersignment
 Certified acc. Pressure Equipment Directive (97/23/EC) by TÜV CERT-Certification body
 for pressure equipment of the TÜV NORD Systems; notified body, reg-no. 0045.

SDMS

Outokumpu Stainless AB Telephone: + 46 (0)228 614 77
 Business Unit Special Coil Fax: + 46 (0)228 613 18
 BOX 74, S-774 22 AVESTA V.A.T no: SE558001874801
 SWEDEN
 Regoffice: Stockholm SWEDEN, Regno: 556001-8748

This material is found to comply with order requirements

Joakim Johansson
 Authorized Inspector



ACERINOX EUROPA
 FABRICA DEL CAMPO DE GIBRALTAR (125 BARRIOS)
 PALMONES (34) - 956 62 93 00
 FAX (34) - 956 62 93 11
 P.O. BOX 63
 11370 LOS BARRIOS (CADIZ)



INSPECTION CERTIFICATE

CERTIFICAT D'INSPECTION

3.1

ACCORDING TO EN 10204
 SUIVANT

CERTIFICATE N° F0 2014 877345 40002*
 N° CERTIFICAT

CUSTOMER CLIENT JACQUET SAS Rur. Michel Jacquet BP 61.69802 SAINT-PIERRE CEDEX FRANCIA	N° JACQUET 091344	OUR ORDER N° NOTRE N° CO RW 549	YOUR ORDER N° VOTRE N° COM 76687 REV 01
		TRADE MARK SIGLE DU PRODUCTEUR 	INSPECTOR'S STAMP POINÇON DE L'INSPECTEUR
		STEELMAKING PROCESS PROCÉDU D'ELABORATION A.O.D.	

REQUIREMENTS EXIGENCES	INTERGRANULAR CORROSION CORROSION INTERGRANULAIRE	GRADE MATTÈRES	FINISH FINI
EN 10088-2:2005 EN-ISO-18286(Thickness Tolerances) ASTM A240Ed12a/A480Ed12-ASME SectIIA SA240/SA480Ed13 EN 10088-2:2005 EN-ISO-18286(Thickness Tolerances) ASTM A240Ed12a/A480Ed12-ASME SectIIA SA240/SA480Ed13	ASTM-A-262 PRACTICA E ASTM-A-262 PRACTICA E	Acx 150 1.4301 Acx 150 TP-304 Acx 150 1.4307 Acx 150 TP-304L	1D N°1 1D N°1

COIL / BOX BOULE/CAISSE	CONTENT CONTENU	DIMENSIONS DIMENSIONS			MARKS MARQUE	QUANTITY QUANTITE	TEST N° ECHANTILLON
		THICKNESS ÉPAISSEUR	WIDTH LARGEUR	LENGTH LONGUEUR			
C1038A	01HÖLZ DB	30,000	1500,00	6000,00	15	1	01HÖLZ D C

SDMS n° 62218 4/3

CHEMICAL ANALYSIS / COMPOSITION CHIMIQUE (%)											
HEAT N° COUÉE	C	CR	MN	N	NI	P	S	SI	CO		
HÖLZ	0,024	17,590	1,764	0,079	8,030	0,035	0,001	0,414	0,122		

MECHANICAL PROPERTIES / CARACTERISTIQUES MECANIKES									
TEST N° ECHANTILLON	PROBES ET TESTES	Rm N/mm2	Rp 0.2 N/mm2	Rp 1.0 N/mm2	A50 %	A5 %	HRB	A200 %	
01HÖLZ D	C T	596,84	285,41	322,73	58,15	59,15	76,00	57,15	

REMARKS / REMARQUES	SURFACE AND DIMENSIONAL CONTROL INSPECTION DIMENSIONNELLE ET VISUELLE
The delivery is in accordance with the order Temperatura de hipertemple entre 1050 y 1100° C.	<p style="font-weight: bold; font-size: 1.2em;">SATISFACTORY SATISFAISANT</p>
<p style="font-weight: bold; font-size: 1.2em;">SDMS</p> <p>C. DREYER Inspection</p>	<p style="font-weight: bold; font-size: 1.2em;">WORK INSPECTOR INSPECTEUR</p> <p style="text-align: center; font-size: 1.2em;">A. Heredia</p>

Palmones, 12 SEPTIEMBRE 2014

MECASEM
8, rue J. Monod - BP 46
69684 CHASSIEU
Tél : 04.78.40.19.73
Fax : 04.78.90.83.34



ACCREDITATION
N° 1-1129
PORTÉE
DISPONIBLE SUR
WWW.COFRAC.FR



RAPPORT D'ESSAI / TESTING REPORT
N° EMM/LY/15/ 0007 E (1/1)

SDMS n° 62218

ESSAIS MECANIQUE / MECHANICAL TESTS

2/3

Client: SDMS
Customer ZI Les Condamines RN 532 BP 4 38160 SAINT-ROMANS
N° Commande: 94667
Order Nr

Repère client: Coulée HOLK / Affaire 32107
Customer reference
Repère labo: 0007 E
Internal reference

Objet: Tôle ép. 30 mm
Object

Matériau de base: 304 L
Parent material

Spécification: ASME SA 240
Specification:

RESULTATS / RESULTS

FLEXION PAR CHOC <i>Impact test / Kerbschlagversuch</i>		Machine d'essai: S-KVU-003 <i>Testing device</i>		Type: Charpy V-notch <i>Shape</i>		Mini imposé: / <i>Mini required</i>		
Energie nominale: 300J <i>Nominal energy</i>		Méthode d'essai: ASTM E 23 (#) <i>Standard / Norm</i>		Dimensions (mm): 10 x 10 <i>Dimensions (mm):</i>		Moy. Imposée: / <i>Average required</i>		
N°	T (°C)	Prélèvement (2) <i>Sample position / Probenlage</i>	J	S (cm ²)	J / cm ²	Moyenne <i>Average / Mittelwert</i>	Expansion latérale <i>Lateral expansion / (mm)</i>	Ductilité (%)
1	-269	ST	135	0,80	/	140,7 J	1,55	95
2	-269	Mi-épaisseur	142	0,80	/		1,61	95
3	-269	(Mid-Thickness)	145	0,80	/		1,69	95

(2) SL : sens de laminage (longitudinal / längs) ; ST : sens travers laminage (transverse / quer) ; P : peau (surface) ; E : épaisseur (thickness / Dicke)

Observation(s) :

Date essai(s) / Test(s) Date : 29/01/2015

Chargé(e) d'essai / Testing staff
R. FRICK

Responsable Technique



Date Emission : 29/01/2015
Emission date

L'accréditation du COFRAC atteste de la compétence des laboratoires pour les seuls essais couverts par l'accréditation. Seul l'objet soumis à l'essai est concerné par ce rapport. Reproduction partielle interdite sans l'approbation écrite du laboratoire.

ESS-MEC-DOP-020

**PROCES-VERBAL DE CONTROLE
INSPECTION REPORT**

N° AFFAIRE : 32157
Job n°

CLIENT : SIGMAPHI
Customer

N° CDE CLIENT : B410/8550
Customer order

DESIGNATION : ENCEINTE HELIUM DIPOLE
Designation

Documents de référence / reference Documents : Spécification technique 318711ind B
Références des appareils utilisés / Reference of used apparatus :

TYPE DE CONTROLE REALISE : Contrôle de reception des tôles
Type of inspection carried out :

RESULTATS OBTENUS/ Achieved results :


Toles ep	N° coulée /N° lot	Ep mesurée (10 points)	Permabilité magnétique (10 points)
12 mm	288663 / 10792 HA	11.88 à 11.94 mm	1.07 à 1.09
12 mm	288663 / 10792 HB	11.82 à 11.90 mm	1.06 à 1.10
20 mm	288642 / 51148	19.90 à 20.10 mm	1.10 à 1.12
20 mm	02E8MK / B9922R	20.06 à 20.10 mm	1.04 à 1.05
20 mm	02E8MK / B9922T	20.04 à 20.11 mm	1.03 à 1.05
20 mm	02E8MK / B9922P	19.93 à 20.08 mm	1.04 à 1.06
20 mm	02E8MK / B9922N	19.95 à 20.10 mm	1.02 à 1.06
30 mm	HOLZ	29.90 à 30.05 mm	1.02 à 1.07

CONCLUSION :

CONFORME CONFORM	NON CONFORME NO CONFORM
---------------------	--

CONTROLEUR / INSPECTOR :

Date : 25/11/11

Visa :  SDMS
D. DREVETON
Inspection

ede 94398/32157

ACRONI

ACRONI d.o.o., Cesta Borisa Kidriča 44, SI-4270 Jesenice

Izdajatelj certifikata
Aussteller der Bescheinigung
Originator of the document

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E-mail: miran.pirnat@acroni.si

Potrdilo o prevzemu 3.1/ Abnahmeprüfzeugnis 3.1/ Inspection certificate 3.1

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St. / Nr. / No.

EN 10 204 3.1
Datum / Datum / Date

310080215-1

05.05.2014

Narocnik / Kunde / Customer

N° JACQUET :

JACQUET SAS

090777
090772

RUE MICHEL JACQUET BP 61
69802 ST-PIERRE CEDEX

Narocilo / Bestellung Nr. / Order No.

76507 disp.38510

Dobavni list / Lieferschein / Despatch note

310080215 z/von/vfrom 28.04.2014

FRANCE

SDMS n° 62220

Izdelek / Erzeugnis / Product

BLECH

Vrsta peči / Erschmelzungsart / Melting furnace

E+VOD

Znak izvedenca TK

Zelchen des sachverständigen
Inspectors' stamp



Znak proizvajalca

Zelchen des Herstellwerkes
Mark of the Manufacturer



Specifikacije / Vorschriften / Specifications

ASTM A240/A 240 M/ED.12
ASME SA240/SA240M, BPVC, Sect. II, Part A, Ed. 2013
PED/97/23/EC

Tip / W.nr. / Type

304L/304
304L/304

Pov. / Fläche / Finish

No.:1
No.:1

Koroz. test / Int.krist.korr. / Corrosion test

ASTM A262 PRACTICE E:OK
NACE MR 0175-2012
NACE MR 0103-2012

EN 10028-7/ED.2007, EN 10088-2/ED.05

X5CrNi18/10/

X2CrNi18/9

1D

EN ISO 3651-2: OK

W.Nr.1.4301/1.4307

AD 2000 Regelwerk W2/ED.01 und W10/ED.01

X2CrNi18/9

W.Nr.1.4307

Obseg dobave / Umfang der Lieferung / Extent of material delivery

Poz. / Pos. / Item	St. sarze / Schmelzen Nr. / Heat No.	St. plosce / Walztafel / Plate No.	Teza neto / Gewicht / Weight kg	Dimenzije / Abmessungen / Dimensions mm	St. kom. / Stückzahl / Quantity	St. vzorca / Probe Nr. / Sample No.
81	288642	51148	1910	20.00 / 2000 / 6000	1	51148 T
81	288642	51148	1920	20.00 / 2000 / 6000	1	51148 T
81	288642	51149	1910	20.00 / 2000 / 6000	1	51148 T
81	288642	51149	1920	20.00 / 2000 / 6000	1	51148 T

Mehanske lastnosti / Mechanische Eigenschaften / Mechanical properties

St.vzorca / Probe Nr. / Sample No.	Smer vzorca / Proben lage / Position	Nap.tecenja / Dehn granice / Yield 0.2% 1/2Pa	Nap.tecenja / Dehn granice / Yield 1% 1/2Pa	Nat.lrdnost / Zugfestigkeit / Tensile str. 1/2Pa	Raztezok / Bruchdehnung / Elongation			Kontrake. / Einschnurung / g	Trdota / Harte / Hardness HB	Zilavost / Kerbschlag / Impact pri / smer bei / lage at / posit. °C		
		Yield	Yield	Tensile	A5 %	A50 %	A50 %	%	Hardness HB	J	at / posit.	°C
Zahteva / Anforderung.	MIN	210	250	520	45				201	60	20	
	MAX			700								
51148 T	P	297	362	606	52.0	55.0			170	317	344	350 20
G - Glava / Kopf / Top												
N - Noga / Fuss / Bottom												
V - Vzdolžno / Längs / Longitudinal												
P - Precno / Quer / Transverse												
Upogib / Biege / Bend : 0.5a												

SDMS
C. DREYFUS
Inspector

ACRONI
ACRONI, d.o.o.
Cesta Borisa Kidriča 44, 4270 Jesenice
Član skupine SII
Member of Slovenian Steel Group

ACRONI

ACRONI d.o.o., Cesta Borisa Kidriča 44, SI-4270 Jesenice

Izdajatelj certifikata
Aussteller der Bescheinigung
Originator of the document

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E-mail: miran.pirnat@acroni.si

SDMS n° 62220

2/4

Potrdilo o prevzemu 3.1/ Abnahmeprüfzeugnis 3.1/ Inspection certificate 3.1

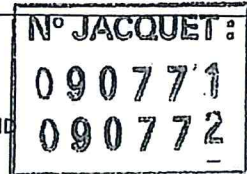
Sl./Nr./No. 310080215-1

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Kemická analýza / Chemische Zusammensetzung / Chemical Composition

Sarža/Schmelzen ttr./ %C	%Si	%Mn	%P	%S	%Cr	%Ni	%B	%N	%Co	Ferite
288642	0.027	0.27	1.80	0.037	0.001	18.10	8.08	<0.0005	0.0717	0.14

Opombe / Bemerkungen / Remarks



WARMBEHANDLUNG : LOSUNGSGLUGEN BEI MIN. 1050°C, WASSER ABGESCHRECKT !

- OBERFLÄCHEN UND MASSPRÜFUNG : OHNE BEANSTANDUNG NACH EN 10029 DICKE CLASS B UND EN 10163-2 B3

- PRÜFUNG AUF WERKSTOFFVERWECHSLUNG : OHNE BEANSTANDUNG

- PRÜFUNG AUF BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION NACH EN ISO 3651-2 : OHNE BEANSTANDUNG

HEAT TREATMENT : SOLUTION ANNEALED AT MIN. 1050°C, WATER QUENCHED

- VISUAL AND DIMENSIONAL CHECK : OK

- SPECTROMETER SORTING TEST : OK

- INTERGRANULAR CORROSION TEST ACCORDING TO

ASTM A 262 PRACTICE E : No cracks were observed at 20X magnification!

Im Einvernehmen mit dem TÜV Bayern e. V. (08/1965). Gegenzeichnungsverzicht durch TÜV Bayern Sachsen e. V. mit Schreiben vom 20.06.1996. Zertifiziert nach DGRL 97/23/EG, Anhang I, Abschnitt 4.3 durch TÜV SÜDDEUTSCHLAND Bau und Betrieb GmbH, Benannte Stelle-Kennnummer 0036 (Oktober 2002).

As agreed with TÜV Bayern e. V. (08/1965). Countersignature by TÜV Bayern Sachsen e. V. is not required (letter of 20 June 1996). Certified according to PED 97/23/EC, Annex I, Paragraph 4.3 by TÜV SÜDDEUTSCHLAND Bau und Betrieb GmbH, notified body-registration number 0036 (October 2002).

THE MATERIAL COMPLIES WITH THE REQUIREMENTS OF THE ORDER.

NO WELD REPAIR

RADIOACTIVITY CONTAMINATION MEASURED WITH EXPLORANIUM

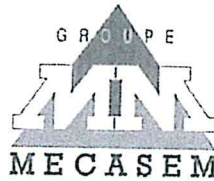
GR - 320 LAB: NO CONTAMINATION

Es wird bestätigt, daß die Lieferung den Bestellanforderungen entspricht.

We confirm herewith that the delivered material complies with the terms of the order.

Zig in podpis
Firmenstempel und Unterschrift
Stamp and signature
ACRONI
ACRONI, d.o.o.
Cesta Borisa Kidriča 44, 4270 Jesenice
Član skupine SSI
Member of Slovenian Steel Group

MECASEM
8, rue J. Monod - BP 46
69684 CHASSIEU
Tél : 04.78.40.19.73
Fax : 04.78.90.83.34



ACCREDITATION
N° 1-1129
PORTÉE
DISPONIBLE SUR
WWW.COFRAC.FR



RAPPORT D'ESSAI / TESTING REPORT SDMS n° 62220
N° EMM/LY/15/ 0007 B (1/1)

ESSAIS MECANQUES / MECHANICAL TESTS

3/4

Client: SDMS <i>Customer</i> ZI Les Candamines RN 532 BP 4 38160 SAINT-ROMANS	N° Commande: 94667 <i>Order Nr</i>
Repère client: Coulée 288642 / Affaire 32157 <i>Customer reference</i>	Repère labo: 0007 B <i>Internal reference</i>
Objet: Tôle ép. 20 mm <i>Object</i>	
Matériau de base: 304 L <i>Parent material</i>	
Spécification: ASME SA 240 <i>Specification:</i>	

RESULTATS / RESULTS

FLEXION PAR CHOC <i>Impact test / Kerbschlagversuch</i>			Machine d'essai: S-KVU-003 <i>Testing device</i>			Type: Charpy V-notch <i>Shape</i>		Mini imposé: / <i>Mini required</i>	
Energie nominale: 300J <i>Nominal energy</i>			Méthode d'essai: ASTM E 23 (#) <i>Standard / Norm</i>			Dimensions (mm): 10 x 10 <i>Dimensions (mm):</i>		Moy. Imposée: / <i>Average required</i>	
N°	T (°C)	Prélèvement (2) <i>Sample position Probenlage</i>	J	S (cm²)	J / cm²	Moyenne <i>Average / Mittelwert</i>	Expansion latérale <i>Lateral expansion / (mm)</i>	Ductilité (%)	
1	-269	ST	241	0,80	/	233,3 J	2,23	95	
2	-269	Mi-épaisseur (Mid-Thickness)	242	0,80	/		2,26	95	
3	-269		217	0,80	/		2,25	95	

(2) SL: sens de laminage (longitudinal / längs); ST: sens travers laminage (transverse / quer); P: peau (surface); E: épaisseur (thickness / Dicke)

Observation(s):

Date essai(s) / Test(s) Date: 29/01/2015

Chargé(e) d'essai / Testing Staff
R. FRICK

Responsable Technique



Date Emission: 29/01/2015
Emission date

L'accréditation du COFRAC atteste de la compétence des laboratoires pour les seuls essais couverts par l'accréditation, sont identifiés par le symbole #. Seul l'objet soumis à l'essai est concerné par ce rapport. Reproduction partielle interdite sans l'approbation écrite du laboratoire.

ESS-MEC-DOP-020

4/4

PROCES-VERBAL DE CONTROLE
INSPECTION REPORT

N° AFFAIRE : 32157
Job n°

CLIENT : SIGMAPHI
Customer

N° CDE CLIENT : B410/8550
Customer order

DESIGNATION : ENCEINTE HELIUM DIPOLE
Designation

Documents de référence / *reference Documents* : Spécification technique 318711ind B
Références des appareils utilisés / *Reference of used apparatus* :

TYPE DE CONTROLE REALISE : Contrôle de reception des tôles
Type of inspection carried out :

RESULTATS OBTENUS/ *Achieved results :*

Toles ep	N° coulée /N° lot	Ep mesurée (10 points)	Permabilité magnétique (10 points)
12 mm	288663 / 10792 HA	11.88 à 11.94 mm	1.07 à 1.09
12 mm	288663 / 10792 HB	11.82 à 11.90 mm	1.06 à 1.10
20 mm	288642 / 51148	19.90 à 20.10 mm	1.10 à 1.12
20 mm	02E8MK / B9922R	20.06 à 20.10 mm	1.04 à 1.05
20 mm	02E8MK / B9922T	20.04 à 20.11 mm	1.03 à 1.05
20 mm	02E8MK / B9922P	19.93 à 20.08 mm	1.04 à 1.06
20 mm	02E8MK / B9922N	19.95 à 20.10 mm	1.02 à 1.06
30 mm	HOLZ	29.90 à 30.05 mm	1.02 à 1.07

CONCLUSION :

CONFORME CONFORM	NON CONFORME NO CONFORM
---------------------	--

CONTROLEUR / INSPECTOR :

Date : 25/11/14

Visa :


SDMS
D. DREVETON
Inspection

0de 94 395 / 94326 - 32107 v 32157

ACRONI

ACRONI d.o.o., Cesta Borisa Kidriča 44, SI-4270 Jesenice

Izdajatelj certifikata
Aussteller der Bescheinigung
Originator of the document

KONTROLA KAKOVOSTI
Telefon: +386 4 584 10 40
Telefax: +386 4 584 10 68
http://www.acroni.si
E-mail: miran.pirnat@acroni.si

Potrdilo o prevzemu 3.1/ Abnahmeprüfzeugnis 3.1/ Inspection certificate 3.1

Narocnik / Kunde / Customer

Stran/Seite/Page 1 / 2
St. / Nr. / No.

EN 10 204 3.1
Datum / Datum / Date

310083234-1

19.06.2014

QUARTO DEUTSCHLAND GMBH

BAHNSTRASSE 38
D-44793 BOCHUM

DMS n° 6222

Narocilo / Bestellung Nr. / Order No.

10003 disp. 39315

Dobavni list / Lieferschein / Despatch note

310083234 z/vom/from 12.06.2014

GERMANY

Izdelek / Erzeugnis / Product

BLECH

Vrsta pecl / Erschmelzungsart / Melting furnace

E+VOD

Znak izvedenca TK

Zeichen des sachverständigen
Inspectors' stamp



Znak proizvajalca

Zeichen des Herstellerwerks
Mark of the Manufacturer



Specifikacije / Vorschriften / Specifications

ASTM A240/A 240 M/ED.12
ASME SA240/SA240M, BPVC, Sect. II, Part A, Ed. 2013
PED/97/23/EC

Tip / W.nr. / Type

304L/304
304L/304

Pov. / Fläche / Finish

No.:1
No.:1

Koroz. test / Int. krist. korr. / Corrosion test

ASTM A262 PRACTICE E:OK
NACE MR 0175-2012
NACE MR 0103-2012

EN 10028-7/ED.2007, EN 10088-2/ED.05

X5CrNi18/10/

X2CrNi18/9

1D

EN ISO 3651-2: OK

W.Nr.1.4301/1.4307

AD2000 Merkblatt W10 Ed. 2008

AD2000 Merkblatt W2 Ed. 2011

X2CrNi18/9

W.Nr.1.4307

Obseg dobave / Umfang der Lieferung / Extent of material delivery

Poz. / Pos. / Item	St. sarze / Schmelzen Nr. / Heat No.	St. plosce / Walztafel / Plate No.	Teza neto / Gewicht / Weight kg	Dimenzije / Abmessungen / Dimensions mm	St. kom. / Stuckzahl / Quantity	St. vzorca / Probe Nr. / Sample No.
181	288633	51285	1420	12.00 / 2500 / 6000	1	51287 T
181	288633	51285	1440	12.00 / 2500 / 6000	1	51287 T
182	288635	51280	1660	14.00 / 2500 / 6000	1	51281 T
182	288635	51280	1680	14.00 / 2500 / 6000	1	51281 T
183	288633	51278	1800	15.00 / 2500 / 6000	1	51276 T
183	288633	51279	1800	15.00 / 2500 / 6000	1	51276 T
183	288633	51279	1800	15.00 / 2500 / 6000	1	51276 T
184	288634	51269	1835	16.00 / 2500 / 6000	1	51268 T

Mehanske lastnosti / Mechanische Eigenschaften / Mechanical properties

Sl. vzorca / Probe Nr. / Sample No.	Smer vzorca / Proben lage / Position	Nap. tecenja / Dehn grenze / Yield 0.2% MPa	Nap. tecenja / Dehn grenze / Yield 1% MPa	Nat. trdnost / Zugfestigkeit / Tensile str. MPa	Raztez / Bruchdehnung / Elongation / AS % / A50 % / A80 %	Kontr. / Einschnurung / %	Trdota / Harte / Hardness HB	Zilavost / Kerbschlag / Impact pri / smer bei / lage a / posit. / J	St. vzorca / Probe Nr. / Sample No.
Zahteve / Anforderung.	MIN / MAX	210 / 250	250 / 309	520 / 605	45 / 700		201	60	20
51276 T	P	271	309	605	57.5 / 60.5		170	350 / 351	346 / 20
51287 T	P	300	339	617	57.0 / 60.0		170	340 / 350	329 / 20
51268 T	P	277	340	599	58.0 / 61.0		170	366 / 352	359 / 20
51281 T	P	309	351	610	54.0 / 57.0		170	389 / 379	375 / 20

G - Glava / Kopf / Top N - Noga / Fuss / Bottom V - Vz dolzno / Langs / Longitudinal P - Precno / Quer / Transverse Upogib / Biege / Bend : 0.5a

20690/20691/20692/20693/20694

Stamp and signature: C. DREYTON

ACRONI 1977
ACRONI d.o.o. Cesta Borisa Kidriča 44, SI-4270 Jesenice
Member of Slovenian Steel Group

Potrdilo o prevzemu 3.1/ Abnahmeprüfzeugnis 3.1/ Inspection certificate 3.1

St./Nr./No. 310083234-1

Stran/Seite/Page 2 / 2

Kemická analýza / Chemische Zusammensetzung / Chemical Composition

Sarža/Schmelzen Nr./	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%B	%N	%Co	Ferrite
288633	0.028	0.35	1.82	0.040	0.001	18.41	8.03	<0.0005	0.0933	0.12	
288634	0.024	0.36	1.83	0.039	0.001	18.18	8.00	<0.0005	0.0989	0.12	
288635	0.030	0.32	1.65	0.038	0.001	18.07	8.02	<0.0005	0.0893	0.12	

SDMS n° 62221

Opombe / Bemerkungen / Remarks

WARMBEHANDLUNG : LOSUNGSGLUGEN BEI MIN. 1050°C, WASSER ABGESCHRECKT !

- OBERFLÄCHEN UND MASSPRÜFUNG : OHNE BEANSTANDUNG NACH EN 10029 DICKE CLASS B UND EN 10163-2 B3

- PRÜFUNG AUF WERKSTOFFVERWECHSLUNG : OHNE BEANSTANDUNG

- PRÜFUNG AUF BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION NACH EN ISO 3651-2 : OHNE BEANSTANDUNG

HEAT TREATMENT : SOLUTION ANNEALED AT MIN. 1050°C, WATER QUENCHED

- VISUAL AND DIMENSIONAL CHECK : OK

- SPECTROMETER SORTING TEST : OK

- INTERGRANULAR CORROSION TEST ACCORDING TO

ASTM A 262 PRACTICE E : No cracks were observed at 20X magnification!

Im Einvernehmen mit dem TÜV Bayern e. V. (08/1965). Gegenzeichnungsverzicht durch TÜV Bayern Sachsen e. V. mit Schreiben vom 20.06.1996. Zertifiziert nach DGRL 97/23/EG, Anhang I, Abschnitt 4.3 durch TÜV SÜDDEUTSCHLAND Bau und Betrieb GmbH, Benannte Stelle-Kennnummer 0036 (Oktober 2002).

As agreed with TÜV Bayern e. V. (08/1965). Countersignature by TÜV Bayern Sachsen e. V. is not required (letter of 20 June 1996). Certified according to PED 97/23/EC, Annex I, Paragraph 4.3 by TÜV SÜDDEUTSCHLAND Bau und Betrieb GmbH, notified body-registration number 0036 (October 2002).

THE MATERIAL COMPLIES WITH THE REQUIREMENTS OF THE ORDER.

NO WELD REPAIR

RADIOACTIVITY CONTAMINATION MEASURED WITH EXPLORANIUM

GR - 320 LAB: NO CONTAMINATION

Es wird bestätigt, daß die Lieferung den Bestellanforderungen entspricht.

We confirm herewith that the delivered material complies with the terms of the order.

20690/20691/20692/20693/20694

ACRONI

ACRONI, d.o.o. in podpis
Cesta Borisa Kidriča 44, SI-4270 Jesenice
Dan slika, pečat in podpis
Member of Slovenian Steel Group

19/72

[Signature]

**PROCES-VERBAL DE CONTROLE
INSPECTION REPORT**

N° AFFAIRE : 32157
Job n°

CLIENT : SIGMAPHI
Customer

N° CDE CLIENT : B410/8550
Customer order

DESIGNATION : ENCEINTE HELIUM DIPOLE
Designation

Documents de référence / *reference Documents* : Spécification technique 318711ind B

Références des appareils utilisés / *Reference of used apparatus* :

TYPE DE CONTROLE REALISE : Contrôle de reception des tôles

Type of inspection carried out :

RESULTATS OBTENUS/ *Achieved results* :

Toles ep	N° coulée /N° lot	Ep mesurée (10 points)	Permabilité magnétique (10 points)
12 mm	288663 / 10792 HA	11.88 à 11.94 mm	1.07 à 1.09
12 mm	288663 / 10792 HB	11.82 à 11.90 mm	1.06 à 1.10
20 mm	288642 / 51148	19.90 à 20.10 mm	1.10 à 1.12
20 mm	02E8MK / B9922R	20.06 à 20.10 mm	1.04 à 1.05
20 mm	02E8MK / B9922T	20.04 à 20.11 mm	1.03 à 1.05
20 mm	02E8MK / B9922P	19.93 à 20.08 mm	1.04 à 1.06
20 mm	02E8MK / B9922N	19.95 à 20.10 mm	1.02 à 1.06
30 mm	01HOLZ	29.90 à 30.05 mm	1.02 à 1.07
30 mm	C9 LZ	30.20 à 30.34 mm	1.04 à 1.07

CONCLUSION :

CONFORME CONFORM	NON CONFORME NO CONFORM
---------------------	---------------------------------------

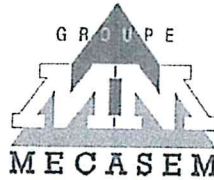
CONTROLEUR / INSPECTOR :

Date : 25/11/14

Visa :

SDMS
C. DRZEVTON
Inspector

MECASEM
8, rue J. Monod - BP 46
69684 CHASSIEU
Tél : 04.78.40.19.73
Fax : 04.78.90.83.34



ACCREDITATION
N° 1-1129
PORTÉE
DISPONIBLE SUR
WWW.COFRAC.FR



RAPPORT D'ESSAI / TESTING REPORT
N° EMM/LY/15/ 0007 A (1/1)

SDMS n° 62221

ESSAIS MECANQUES / MECHANICAL TESTS

4/4

Client: SDMS <i>Customer</i> ZI Les Condaminnes RN 532 BP 4 38160 SAINT-ROMANS	N° Commande: 94667 <i>Order Nr</i>
Repère client: Coulée 288633 / Affaire 32157 <i>Customer reference</i>	Repère labo: 0007 A <i>Internal reference</i>
Objet: Tôle ép. 12 mm <i>Object</i>	
Matériau de base: 304 L <i>Parent material</i>	
Spécification: ASME SA 240 <i>Specification</i>	

RESULTATS / RESULTS

FLEXION PAR CHOC <i>Impact test / Kerbschlagversuch</i>		Machine d'essai: S-KVU-003 <i>Testing device</i>		Type: Charpy V-notch <i>Shape</i>		Mini imposé: / <i>Minit required</i>		
Energie nominale: 300J <i>Nominal energy</i>		Méthode d'essai: ASTM E 23 (#) <i>Standard / Norm</i>		Dimensions (mm): 10 x 10 <i>Dimensions (mm):</i>		Moy. Imposée: / <i>Average required</i>		
N°	T (°C)	Prélèvement (2) <i>Sample position Probenlage</i>	J	S (cm²)	J / cm²	Moyenne <i>Average / Mittelwert</i>	Expansion latérale <i>Lateral expansion / (mm)</i>	Ductilité (%)
1	-269	ST	181	0,80	/	187,7 J	1,92	90
2	-269	Mi-épaisseur (Mid-Thickness)	181	0,80	/		2,09	90
3	-269		201	0,80	/		2,32	90

(2) SL : sens de laminage (longitudinal / längs) ; ST : sens travers laminage (transverse / quer) ; P : peau (surface) ; E : épaisseur (thickness / Dicke)

Observation(s) :

Date essai(s) / Test(s) Date : 29/01/2015

Chargé(e) d'essai / Testing staff
R. FRICK

Responsable Technique



Date Emission : 29/01/2015
Emission date

L'accréditation du COFRAC atteste de la compétence des laboratoires pour les seuls essais convertis par l'accréditation. Seul l'objet soumis à l'essai est concerné par ce rapport. Reproduction partielle interdite sans l'approbation écrite du laboratoire.

ESS-MEC-DOP-020



TEL: 00351 21 302256
 FAX: 00351 21 302256
 C.F. 0212130987
 VAT: IT01571520070 - R.E.A. n. AD 50476

inscriptions avec les symboles de gestion certifiés
 par ISO selon ISO 9001, ISO/TS 16949 et ISO
 14001.

CERTIFICAT DE RECEPTION 3.1 (EN 10204:2004)
 (A03) NUMERO DE DOCUMENT 20140462
 PAGE 2/2

ESSAI DE TRACTION AU ETAT DE FOURNITURE
 Lot de control Poids: 020000549065
 SPECIFICATION

EN-ISO5892-1 3.784 KG

(C02) ORIENTATION DE L'EPROUVETTE: L

UNITE DE MESURE	ORIENTA	RP1	MPA
ORTENU	Z	MPA	
	%		
	72,8	304	
	72,2	293	
	74,0	302	
	74,2	296	

085170

DIMENSION DU GRAIN
 Lot de control - Poids : 020000549065 - 3.784 KG
 SPECIFICATION
 OBTENU 5 7 ASTM E112 --

ESSAI DE TRACTION
 Lot de control - Poids : 020000549065 - 3.784 KG
 SPECIFICATION

(C02) ORIENTATION DE L'EPROUVETTE: L

UNITE DE MESURE	ORIENTA	AL2B	ZB
OBTENU	%	%	%
	4,0 D		
	70,5		
	70,8		
	70,6		
	69,8		

ESSAI DE CORROSION SELON ASTM A262 METHODE E EN ISO 3651-2: CONFORME.
 INSPECTION DE LA SURFACE AVEC COURANTS DE FOUCAULT (CAPTEUR ROTATIF) ET VISUELLE SUIVANT EN 10277-1 CLASSE 4: CONFORME.
 CONTROLE DIMENSIONNEL SUIVANT LA NORME EN 10278: CONFORME.
 MATERIEL 100% TESTE A ULTRASONS KSR: I.
 AUCUNE REPARATION DE SOUDURE EXECUTEE.
 CONTROLE ANTIMELANGE AVEC SPECTROMETRE PORTABLE: CONFORME.
 LES PRODUITS SONT CONFORMES AUX DIRECTIVES CE: 2011/65 - 2000/53 2002/95 (ROHS) 2003/11 - 2005/618 ET PED 97/23/CE.
 LE MATERIEL EST EXEMPT DE TOUTE COMPOSES DU MERCURE ET/OU LA CONTAMINATION AU RADIUM AU MOMENT DE L'EXPEDITION ET A ETE PRODUIT SANS
 L'UTILISATION DE SUBSTANCES APPAUVRISSENT LA COUCHE D'OZONE DE CLASSE I ET II.
 MARQUAGE: MARQUAGE DU PRODUCTEUR, N. WERKSTOFF, N. COULÉE, N. LOT POINCON DE L'EXPERT
 DOCUMENT PRODUIT EN ACCORD AVEC TUEV BAYERN (11.1.1972) NE FAISANT PAS L'OBJET D'UNE CONTRE-SIGNATURE (VOIRE DOCUMENT TUEV BAYERN
 17.01.80).
 MATERIEL PRODUIT DANS UN SYSTEME D'ASSURANCE QUALITE EN ACCORD
 AVEC UNI EN ISO 9001:2008 ET ISO/TS 16949:2009 (POUR CETTE DERNIERE SEULEMENT POUR LES BARRES EN ACIER LAMINEES 'ECROUTEES'
 RECTIFIEES' ET POUDRS METALLIQUES ATOMISEES), CERTIFIE PAR ISO.
 TOUTES LES NORMES MENTIONNEES SONT EN ACCORD AVEC LES DERNIERES REVISIONS.
 Pays d'origine: Italie, le matériel est conforme aux normatives FAR DFARS 252.225-7014 ALT I.

SDMS n° 62317

{Z01} DATE 24.07.2014

VANESSA MICONI MV (ESPERT DE L'USINE) - CERTIFICAT CREE ELECTRONIQUEMENT



SHANGHAI MAX FITTINGS CO., LTD

No. 9885 Puwei Road, Fengxian District, Shanghai, China
Mill test certificate in acc. with EN 10204 3.1

ISO9001:2000 Cert. No.: 01 100 106091
EU Directive 97/23/EC Cert. No.: 01 202 CH/Q-10 0410
AD2000-MERKBLATT W0 Cert. No.: 01 202 CH/Q-10 0410

Cde 94593/32157

SDMS n° 62 325

Client		NOXON STAINLESS B.V.					
Contract / PI No.		MF20140926					
PO No.		14032612					
Product / Produkt		STAINLESS STEEL SEAMLESS FITTINGS (BUTT WELD) EDELSTAHL NATHLOSE FITTINGEN					
Item #	Quantity L Menge	Size Abmessung	Description Umschreibung	Grade	Heat No. Schmelz Nr.	Heat treatment Wärmebehandlung	Quenching Ausbleichung
20	30	1 1/2"	Long Radius Elbows 90°	WP304/304L-S	140307T06	1052° 15 min.	RWQ
21	500	2"	Long Radius Elbows 90°	WP304/304L-S	13A050908	1052° 15 min.	RWQ
22	250	2"	Long Radius Elbows 90°	WP304/304L-S	13A050908	1052° 15 min.	RWQ
23	150	2"	Long Radius Elbows 90°	WP304/304L-S	13A050908	1052° 15 min.	RWQ
24	91	4"	Long Radius Elbows 90°	WP304/304L-S	130909H06	1052° 15 min.	RWQ
25	58	4"	Long Radius Elbows 90°	WP304/304L-S	140306T08	1052° 15 min.	RWQ
39	25	2"	Long Radius Elbows 180°	WP304/304L-S	H13B030301	1052° 15 min.	RWQ
Chemical Composition / Chemische Zusammensetzung (Acc. to insp. cert of steel manufacturer) (Gemäss Vornmaterialzeugnis)				Mo	Ti	N	
Heat No./Schmelz Nr.	C max	Mn max	P max	S max	Si max	Cr	Ni
WP304/304L-S	0.030	0.045	0.045	0.030	1.00	18.0 - 20.0	8.0-12.0
140307T06	0.019	1.34	0.032	0.001	0.57	18.18	8.09
13C050908	0.018	1.44	0.031	0.002	0.40	18.19	8.05
13A050908	0.022	1.43	0.030	0.004	0.35	18.14	8.05
13C050908	0.018	1.44	0.031	0.002	0.40	18.19	8.05
130909H06	0.021	1.45	0.031	0.002	0.37	18.19	8.06
140306T08	0.025	1.34	0.037	0.001	0.46	18.21	8.03
H13B030301	0.016	1.38	0.029	0.002	0.41	18.29	8.06
Mechanical Test / Mechanischer Test							
Heat No.	TS (Mpa)	YS (Mpa)	EL (%)	Hardness Härte	NACE MR0175	Corrosion Test-10 Korrosionstest	Impact Test-10 Kerbschlag
Schmelz Nr.	Zug Festigkeit/ Streckgrenze	Dehnung	59	HRB=79	OK	N/A	PT
140307T08	600	285	57	HRB=75	OK	N/A	OK
13C050908	585	280	57	HRB=77	OK	N/A	OK
13A050908	605	300	56	HRB=75	OK	N/A	OK
13C050908	595	295	59	HRB=78	OK	N/A	OK
130909H06	595	280	55	HRB=81	OK	N/A	OK
140306T08	595	285	57	HRB=76	OK	N/A	OK
H13B030301	550	255	51		OK	N/A	OK

MARKING / MARKIERUNG: MAX-SPEC-GRADE-CLASS-NPS-SCH-HEAT NO.-QC'S NAME

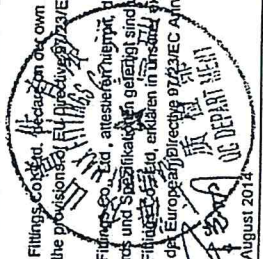
- Remarks/ Bemerkungen
1. PMI test / Vverwechslungsprüfung
 2. Visual inspection / Beschligung
 3. Dimension / Mass
 4. Welding Bevels / Schweißphase Gemäß
 5. Base Material / Vornmaterial
 6. Steel Making Process/Staal productie Proces
 7. Manufacturer's mark / Herstellerzeichen

- : 100% Satisfactory / Ohne Beanstandung
- : Without complaints / Ohne Beanstandung
- : Without complaints / Ohne Beanstandung
- : According to / gemäß ASTM A262-10 pract. E
- : According to / gemäß ASME B16.25
- : According to / gemäß ASTM A312
- : AOD/VOD

We, Shanghai Max Fittings Co., Ltd, hereby certify that the material have been manufactured, tested, and examined in accordance with all the requirements of the ordered standards and all results are acceptable.

We, Shanghai Max Fittings Co., Ltd, accept our own responsibility, that all fittings herein are manufactured in accordance with the provisions of EN Directive 97/23/EC Annex I paragraph 4.3

Wir, Shanghai Max Fittings Co., Ltd, anerkennen hiermit, dass die hierin beschriebenen Produkte gemäß den Standards und Bestimmungen geneigt sind und den Anforderungen der Bestellung entsprechen. Wir, Shanghai Max Fittings Co., Ltd, erklären in diesem Zusammenhang unsere Verantwortung, dass die angeforderten Materialien gemäß den Regeln der Europäischen Richtlinie 97/23/EC Annex I § 4.3.



Q.A. Manager:

Date: 16 August 2014



SDMS C. DRIVE ON Inspection

F146133996

026-33

ISO9001:2008

GTAI 巨泰特种钢有限公司

EN 10204 3.1

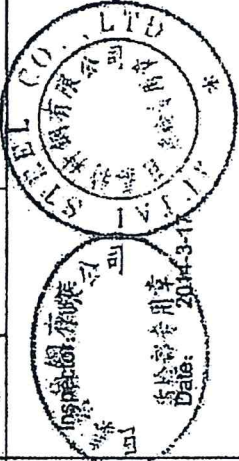
PED9723/EC

INSPECTION CERTIFICATE

Cer.No: Gtai20140317002

SDMS n° 62325

客户 Purchaser	上海众山管件有限公司 Shanghai Max Fittings Co., Ltd.	合同号 Contract No.	PP20140113	生产标准 Specification	ASTM/ASME A5A312-09							
产品 Products	不锈钢无缝钢管 Stainless steel seamless pipes	订单号/PO No.	/	交货状态 Delivery Condition	pickled, Solution annealed at 1050°C min							
型号 Grade	规格 O.DxW.T(mm) 60.33X3.91	长度 Length (Mtrs) 5-7	米数 Meters /	重量 Weight (KG)	表面情况 Surface Condition GOOD							
化学成分 Chemical Composition %												
Elements	C	Mn	P	S	Si	Cr	Ni	Mo	Ti	Cu	Hardness HRB	Intergranular Corrosion
	Min.											
Spec.	Max.	0.035	0.045	0.030	1.00	20.00	13.00	8.05				
	Heat Analysis	0.018	1.44	0.031	0.002	18.19	8.05					
机械性能 Mechanical Properties												
抗拉强度Rm	屈服点 RPO.2	伸长率	屈服试验	扩口试验							水压试验	
	Tensile Strength (Mpa)	Yield Strength (Mpa)	Elongation%	Flattening Test	Flare Test	Grain Size	ET	UT	Hydrostatic Test			
605	295	59	OK	OK	OK	N/A	N/A	OK	N/A			



Remarks:

- This product complies with the requirements of NACE MR0103-2007, NACE MR0175-First Edition, and ISO15166-2009.
- No weld repair performed for billet or pipe.
- Mercury free, free of radioactive contamination
- The material was heated to above 1050°C, hold more than 2 minutes per millimeter and quenched in cold water.
- This material has been PMI tested 100%. 6.Hardness to NACE MR0175

We hereby certify that the product were manufactured and tested strictly acc to specifications and customers' order.

地址: 浙江省龙港市金岗工业园区巨泰路1号 ADD:Jing-gang Industrial Park,1 Jutai Road,Longquan City,Zhejiang,China E-MAIL: sales@julaigroup.com

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F146133996

ZHEJIANG JNDIA PIPELINE INDUSTRY CO., LTD.

Tel: +86-577-85826161 Fax: +86-577-85826565 Email: Sales@jndia.com.cn
NO 2 ZIJING ROAD, SHECHENG TOWN, LONGWAN DISTRICT, WENZHOU CHINA

SDMS n° 62326



Mill Test Certificate



PED/97/23/EC Cert. No.: MMS-STF-1
ISO 9001:2008

50095-2009-AQ-RGC-RvA/Rev.1

Certificate: EN10204 3.1 证书号 Certificate No.: JNDIA2014-GW099-1 页次 Page 1 of 9

Customer: Stock Services A division of S.E.A.T.S.Ltd.
PO No. 558
Description: BUTT WELDED FITTINGS
Material: ASTM/ASME A/SA 403/403M-10 WP304/304L
Heat Treatment: Solution annealed & water quenched(1050°C)
Steel Making Process: AOD

- 标识 Marking
- 制造商标识 Manufacture's Mark
 - 尺寸、壁厚 Dimension Schedule
 - 材质 (S无缝 W有缝) Material S(Seamless)&W(Welded)
 - 炉号/标准 Heat Number&Standard

品交单情况 Extend of Material Delivery:

NO.	名称 Description	规格 Dimension	材质 Material	数量 Quantity (pcs)	炉号 Heat No.	备注 Remarks
3	CAP	1" SCH10S	WP304/304L-S	150	AR21841	ANSI B16.9-2012
33	90° ELBOW SR	6" SCH10S	WP304/304L-S	50	S23805	ANSI B16.9-2012
35	CON RED	6"×4" SCH10S	WP304/304L-S	25	S23805	ANSI B16.9-2012
15	90° ELBOW LR	1.1/4" SCH40S	WP304/304L-S	130	S32640	ANSI B16.9-2012
19	90° ELBOW LR	2" SCH40S	WP304/304L-S	100	S32640	ANSI B16.9-2012
20	90° ELBOW LR	2" SCH80S	WP304/304L-S	100	S32640	ANSI B16.9-2012

检测结果 (标准要求已符合, 见如下表格) Inspection Results (The Requirements are fulfilled as listed in Annex)

A. 化学分析 Chemical Analysis: [%]

Heat No.	C	Si	Mn	P	S	Cr	Ni	Nb	N	Mo
3 AR21841	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-12.0			
33 S23805	0.019	0.52	1.25	0.026	0.003	18.08	8.12			
35 S23805	0.019	0.48	1.18	0.021	0.001	18.07	8.11			
15 S32640	0.019	0.48	1.18	0.021	0.001	18.07	8.11			
19 S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06			
20 S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06			

B. 机械性能 Mechanical Properties & Tensile Inspection:

Heat No.	屈服强度 Yield Strength (MPa) ≥205 σ 0.2	抗拉强度 Tensile Strength (MPa) ≥515	延伸率 Elongation A50(%) ≥28%	硬度 Hardness (HRB) ≤90	断面收缩率 Reduction of Area(Z%)	冲击试验 Charpy Impact(AK)
3 AR21841	275	605	40	78	/	/
33 S23805	255	600	40	68	/	/
35 S23805	255	600	40	68	/	/
15 S32640	275	590	50	72	/	/
19 S32640	275	590	50	72	/	/
20 S32640	275	590	50	72	/	/

C. 检测及相关数据验证 Inspection and Related Data Verify:

尺寸检查 Dimensional Check	PASSED	压扁试验 Flattening Test	/
表面检查 Surface Quality Inspection	PASSED	射线 Radiography Examination	/
渗透检查 Penetration Examination	/	晶间腐蚀性 Corrosion Test	ASTM A262 Practice E
无损检测 PMI	PASSED	硬度测试 Hardness Test	PASSED

D. 备注 Remarks:

NACE MR-0175 and NACE MR-0103 2010 Material free from mercury and radiation contamination ASME SECTION VIII DIV 1 A-2010

We hereby certify that the material has been made and tested in accordance with the above specification and the requirement called for on the order

检验工程师:

日期: 2014-06-13
Date

SDMS
C. DAVENON
Inspector



产品质量证明书
INSPECTION CERTIFICATE (EN 10204/3.1)

合同编号 (Contract No.): KL110120702-1
客户 (Customer): 浙江嘉善达管业有限公司
证明书编号 (Certificate No.): KL-00614044-N3

浙江嘉善达管业有限公司
Zhejiang Kunglong Steel Industry Co., Ltd

产品名称 Commodity		不锈钢无缝管 Stainless Steel Seamless Pipe		产品标识 Product Specification		交货状态 Supply Condition		规格/重量 Solution/Weighted					
料号 Heat No.	钢种 Steel Grade	批号 Batch No.	尺寸/外径-壁厚-长度 Size (D1) x (t) x (mm)	数量/支 Pieces	重量/kg Weight (kg)								
S12041	P2041	KL140401207AS114004208	2673.91/68.73/91		8736.00kg/8780.00kg								
		KL140401207AS114004210	6037.5/54.88/95.99		8860.00kg/92140.80kg								
化学成分 Chemical Composition (%)													
拉伸试验 Tensile Test (纵向 Longitudinal) 等级 (ASME)		C	Si	Mn	P	S	Cr	Ni	Mo	N	Nb	Ti	V
屈服强度 Yield Strength		0.021	0.52	1.23	0.019	0.005	18.12	8.06					
抗拉强度 Rm (N/mm ²)	伸长率 Elongation A%												
275	50												
硬度 Hardness (HBB)													
72													
外观、尺寸 Visual, Slope and Dimension		晶粒度 Grain Degree		晶间腐蚀 Intergranular Corrosion Test		超声波探伤 UT		扩口试验 Drift Expanding		水压试验 Hydraulic Testing		无损检测 PMI	
注: 符合等级 Good		/		ASTM A262-2002 Satisfactory		ASTM E212-09 Satisfactory		ASTM A426-88 Satisfactory		Good		Good	
<p>我们特此证明: 上述所有管道均按照 PED (EN 10204) 的要求进行生产, 且符合客户要求。 We hereby certify that the pipes above have been manufactured in the processes approved by LROA according to PED/EN 10204/3.1. The results of inspections and tests satisfy the requirements of customer. Steel Making process: cold formed</p>													

地址: 浙江嘉兴南湖工业园区嘉善大道 358 号
Add: No.356, Lvyu Avenue, Shuang Industrial Zone, Lishui City, China



电话 (TEL): 0578-2521888 0521898 2521809
传真 (FAX): 0578-2521887 2521897

SDMS n° 62326

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MILL TEST CERTIFICATE

SDMS n° 62327

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Topper(Shanghai) Piping Materials Co., Ltd (EN10204 3.1)

检验证书: EN10204:2004	证书号: MTC-TOPPER-SW12045-01	I
Certificate: EN10204:2004	Certificate No.: MTC-TOPPER-SW12045-01	I
客户/Customer: Santrade Ltd	订单号/Order No.: 25186	标识/Marking: 0 管件型式
品名/Article: 管件/Fittings	技术条件/Specification: ASME B16.9	Manufacturer's mark: TOPPER
材料/Material: ASTM/ASME A/SA403-WP304/304L-S	熔炼方法/Pre-material melting: AOD	Standard: ASTM/ASME A/SA403 ASME B16.9
加工工艺/Workmanship: 冷成型/Cold Forming	交货状态/Delivery Conditions: Solution, de-scaled, pickled and passivated	Sec. II, Part A, Ed. 07 A08
		Specifications Dimension Size
		Grade Material: WP304/304L-S
		Heat Number: 08A2321/ 08C1075
		08A2317/08C2239/ HDJ10-436

产品交货范围/Extend of material delivery

序号 Item No.	品名 Description	规格 Dimension	数量 Quantity	炉号 Heat No.	备注 Remark
1	90°ELBOW LR	2"×SCH40S	1500	08A2321	--
5	45°ELBOW LR	3/4"×SCH40S	15	08C1075	--
6	45°ELBOW LR	1"×SCH40S	10	08A2317	--
7	CON REDUCER	1"×1/2"×SCH40S	80	08A2317	--
9	CON REDUCER	1 1/4"×1/2"×SCH40S	10	08C2239	--
10	CON REDUCER	1 1/4"×1"×SCH40S	30	08C2239	--
18	ECC REDUCER	1"×1/2"×SCH10S	15	HDJ10-436	--

试验结果/Test Results: 标准要求已符合, 见如下表格/The requirements are fulfilled as listed in Annex.

A 化学分析/Chemical analysis:

炉号/Heat No.	C%	Mn%	Si%	S%	P%	Cr%	Ni%
ASTM/ASME A/SA403 WP304/304L-S	≤ 0.030	≤ 2.00	≤ 1.00	≤ 0.030	≤ 0.045	18.0-20.0	8.0-11.0
08A2321	0.019	0.97	0.55	0.005	0.041	18.19	8.13
08C1075	0.028	1.34	0.59	0.001	0.037	18.26	8.21
08A2317	0.022	0.99	0.46	0.002	0.034	18.30	8.03
08A2317	0.022	0.99	0.46	0.002	0.034	18.30	8.03
08C2239	0.023	0.92	0.45	0.001	0.033	18.09	8.22
08C2239	0.023	0.92	0.45	0.001	0.033	18.09	8.22
HDJ10-436	0.021	0.90	0.37	0.002	0.032	18.40	8.13

B 机械性能/Mechanical Properties test:

试样号 Specimen	试验温度 Test Temp	屈服强度 Yield Strength	拉伸强度 Tensile Strength	延伸率 Elongation	硬度 Hardness	冲击试验 Charpy Impact
Nr./No.		Mpa	Mpa	%	HRB	
ASTM/ASME A/SA403 WP304/304L-S	25°C	≥ 205	≥ 515	≥ 2.8	≤ 90	--
1	08A2321	270	575	57	69	--
5	08C1075	225	535	54	62	--
6	08A2317	245	565	54	64	--
7	08A2317	245	565	54	67	--
9	08C2239	280	570	57	60	--
10	08C2239	280	570	57	63	--
18	HDJ10-436	275	605	64	61	--

C 无损探伤, 尺寸检查及水压试验/Hydrostatic Test, NDT and Dimension check:

试验/Testing	结果/Result	试验/Testing	结果/Results
尺寸检查/Dimension check	OK	水压试验/Hydrostatic pressure test	N/A
表面检查/Surface quality inspection	OK	PMI Test	PASSED
晶腐/IGC to ASTM A262 "E"	PASSED	X 射线/X-ray test	N/A

D 备注/Remarks: MANUFACTURER IS CERTIFIED ISO 9001:2008 ; MATERIAL IS EN10204-3.1 COMPLIANT; MATERIAL IS NACE MR0175 COMPLIANT; MATERIAL IS PED 97/23/EC CERTIFIED

1. 热处理 / Solution (at 1080°C not less than 15.min) and quenched
2. We hereby certify that the product described herein has been manufactured in accordance with the specifications concerned and also with the purchaser's requirements and that the test results shown herein are correct.

地址: 上海
Address: SHANGHAI CHINA
地址: 上海市金山区亭卫公路 3318 号
Factory Add: 3318 Tingwei Ave, Jinshan District, Shanghai, China
制单:
Inspector: 王润洞

QUALITY ASSURANCE APPROVAL
SPECIAL BADGE OF QUALITY TEST

21. Aug. 2012

复验:
Approved: 杨志岗

日期 2012-7-4
Date: July 4, 2012

Approval: 刘少东

SANTRADE LTD LUERNEL

SEAL
C. DREYFUS
Inspection

SDMS n° 62327

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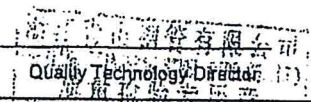


ZHEJIANG TSINGSHAN STEEL PIPE CO., LTD.

XIAOZHI INDUSTRIAL ZONE, QINGTIAN COUNTY, ZHEJIANG PROVINCE CHINA PC:323903

MILL TEST CERTIFICATES to EN 10204/3.1 PED 97/23 CE

Customer : Shanghai Want Industry Co., Ltd.
 Contract No. : T01H0211F005
 Specification : ASTM A312
 Steel Grade : TP304L
 Goods : SEAMLESS STAINLESS STEEL PIPES
 Cert No. : ST090319-002
 Delivery Condition : A & P
 Appearance : Solution Treated

Heat No.		Chemical Composition (%)									
		C	Si	Mn	P	S	Cr	Ni	Mo	Ti	
Spec.	min.						18.00	8.00			
	max.	0.035	1.00	2.00	0.045	0.030	20.00	13.00			
08A2321		0.019	0.55	0.97	0.041	0.005	18.19	8.13			
Batch No.		Size			Quantity						
3P0903D2-110		90.3*3.91			70 PCS		2326.8 KG				
Test No.		Mechanical Properties									
		Yield Strength Mpa	Tensile Strength Mpa	Elongation A(%)	Hardness Test HRB	Flaring Test	Flattening Test	Flange Test	Hydrostatic Test Acc to ASTM A530/530M		
Spec.	min.	170	485	35							
	max.										
08A2321		270/285	575/585	57/58		/	GOOD	/	GOOD		
Nondestructive Examination			Inter-granular Corrosion								
Eddy Current Test Acc to ASTM E426		Ultrasonic Test Acc to ASTM E213		Acc to ASTM A262 E PRACTICE							
GOOD		/		/							
Additional Remarks:											
1.Dimension & Surface: OK				2.Country of Origin: China							
3.Hardness acc to Nace MR 0175: 01.03				4 100% PMI							
We hereby certify that the material described above has been tested and complies with the terms of the Contract & the specification, and we confirm that P.M.I has been done.											
				21/04/2011							
				Date							

cde 94593/32157

F146133416



Suzhou Yuli Pipeline Industry Co Lt

Mill Test Certificates

NO 800 Chang an Road Youyi Industrial Zone Wujiang China

SDMS n° 6232R

MILL TEST CERTIFICATE TO EN 10204 3.1 ISSUED BY BENEFICIARY

Certificate: EN10204/3.1 Certificate-NO: MC-TYF-6-20130527003 Page 3 of 15

L/C No.: DTNLFM624744

Customer:	<u>NOXON STAINLESS BV</u>	Marking: ● Manufacture's Mark ● Dimension & Schedule ● Material S(Seamless)orW(Welded) ● Heat Number & Standard
Order No.:	<u>13030405</u>	
Description:	<u>Stainless steel fittings</u>	
Specification:	<u>ANSI B16.9</u>	
Material:	<u>ASTM A403M-07/ASME SA403M-2011a SEC II PART A WPS-304/304L</u>	
Workmanship:	<u>Cold forming</u>	
Heat Treatment:	<u>Solution annealing 1070°C ± 10°C and quenched</u>	

Extend of material delivery:

Item No.	Description	Dimension	Quantity	Heat No.	Base Cert.No.	Remarks
1	ELB 90L/R	1 1/2" * 10S	150	12A10405	121230JN003	
2	ELB 90L/R	2" * 10S	250	12A10405	121230JN004	
3	ELB 90L/R	2" * 40S	150	12A10405	121230JN004	
4	ELB 90L/R	3" * 10S	250	1208C182	121230JN005	
5	ELB 90L/R	4" * 10S	250	1208C182	121230JN006	

Inspection Results (The requirements are fulfilled as listed in Annex):

A. Chemical Analysis:

Heat No.	C%	Mn%	Si%	S%	P%	Cr%	Ni%	Mo%	Cu%	Ti%
1	12A10405	0.025	1.41	0.32	0.002	0.039	18.30	8.07		
2	12A10405	0.025	1.41	0.32	0.002	0.039	18.30	8.07		
3	12A10405	0.025	1.41	0.32	0.002	0.039	18.30	8.07		
4	1208C182	0.016	1.61	0.37	0.002	0.035	18.47	8.18		
5	1208C182	0.016	1.61	0.37	0.002	0.035	18.47	8.18		

B. Mechanical Properties & Tensile Inspection :

Heat No.	Yield Strength		Tensile Strength	Elongation	Hardness HRB ≤ 90	Charpy Impact		
	0.2%	1%						
1	12A10405	235	580	50	OK			
2	12A10405	235	580	50	OK			
3	12A10405	235	580	50	OK			
4	1208C182	255	565	55	OK			
5	1208C182	255	565	55	OK			

C. Inspection and Related Data Verify:

Dimensional check	OK	Hydrostatic pressure test	/
Surface quality inspection	OK	Radiography Examination	/
Penetration examination	OK	IC to ASTM A262 "E"	OK
PMI	OK	HT to NACE MR-0175	OK

D. Remarks:

Delivery Condition: Solution annealing and quenched
 We, Suzhou Yuli Pipeline Industry Co. Ltd. declares on our own responsibility, that the fittings mentioned above are manufactured in accordance with all the requirements of the ordered standards and confirm that all the test results are acceptable.

Wujiang
China

Date: 2013-05-27

Work inspector:
卓作武



15101145
SDMS
C. DREVITON
Inspection

MILL TEST CERTIFICATE (EN 10204:3.1)

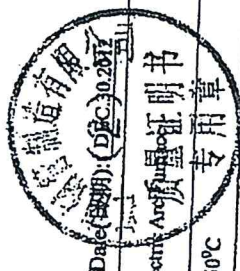
质量证明书 (EN 10204:3.1)

WENZHOU JIANGNAN STEEL PIPE MANUFACTURING CO., LTD.

温州市江南钢管制造有限公司

Messrs. (客户名称) SUZHOU YULI PIPELINE INDUSTRY CO., LTD

No. (编号): 121230JND003



Description (产品名称) Stainless steel seamless pipe 不锈钢无缝钢管		Condition (交货状态) Annealed Quenching & pickled (固溶, 淬火, 酸洗)		Steel making process Heat Treating		Electric Arc 1050°C		Lot No. 炉批号					
Contract No. (订单号码)		Specification (技术条件) ASTM/ASME A/SAS 12-08		Heat Treating		Manufacturing No. 生产编号		Date (日期): (DEC. 30. 2011)					
Chemical Composition (%) (化学成分)													
No.	Heat No. (炉号)	Grade (钢种)	Elements Specification	C	Si	Mn	P	S	Ni	Cr	Ti		
1	12A10405	TP304L	Results (ladle)	0.025	0.32	1.41	0.039	0.002	8.07	18.30			
2	12A10405	TP304L	Result (Product)	0.023	0.33	1.38	0.037	0.001	8.06	18.32			
			Result (Product)	0.023	0.33	1.38	0.037	0.001	8.06	18.32			
Item No.	Size (产品尺寸) (NPS-SCH)	Pcs (支)	Qty (张)	T.S. (N/mm ²) ≥ 485	Y.S. (N/mm ²) ≥ 170	EL. (%) ≥ 35	Intergranular Corrosion test 晶间腐蚀 (A262/E)	Flattening Test 压扁 (A370)	P.M.I. TEST	Hardness HRB 硬度 (≤ 90)	Hydrostatic Test 水压	Eddy current Test 涡探 (E426)	Ultrasonic Test 超探 (E213)
1	48.3*3.0mm	50	1016	580	235	50	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	/	/	ACCEPTABLE	/
2	48.3*3.8mm	45	1137	580	235	50	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	/	/	ACCEPTABLE	/

Remarks: (备注)

AS PER ASTM/ASME A/SAS12-06, A999/A999M-04A, HARDNESS TO NACE MR01-75, IC ACC ASTM A262/E ET ACC TO E426
FLATTENING TEST ACC. ASTM A370 100%PMI

1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN BEEN MADE IN ACCORDANCE WITH THE RESULTS THE CONTRACT AND CONFORM TO THE SPECIFICATION ABOVE.
2. THE CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

WENZHOU JIANGNAN STEEL PIPE MANUFACTURING CO., LTD.
DIRECTOR, TECHNOLOGY (技术部经理)
MANUFACTURING

ADDRESS: WEST YONGNING ROAD YONGZHONG WENZHOU CHINA
PHONE: 86-577-86378428/86861557
FAX: 86-577-86378418

SDMS n° 62320

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Cde 94593/32157

F5U6132816

ZHEJIANG JNDIA PIPELINE INDUSTRY CO., LTD.

Tel: +86-577-85826161 Fax: +86-577-85826565 Email: Sales@jndia.com.cn
NO 2 ZIJING ROAD, SHECHENG TOWN, LONGWAN DISTRICT, WENZHOU CHINA

SDMS n° 62329



Mill Test Certificate



PED/97/23/EC Cert. No.:MMS-STF-1
ISO 9001:2008
50095-2009-AQ-RGC-RvA/Rev.1

证书 Certificate: EN10204 3.1 证书号 Certificate No.: JNDIA2014-GW034-8 页次 Page 8 of 37

客户 Customer: Stock Services A division of S.E.A.T.S.Ltd.
订单号 PO No.: 545
产品描述 Description: BUTT WELDED FITTINGS
材质 Material: ASTM/ASME A/SA 403/403M-10 WP304/304L
热处理 Heat Treatment: Solution annealed & water quenched(1050°C)
Steel Making Process: AOD

标识 Marking
 • 制造商标识 Manufacture's Mark
 • 尺寸、壁厚 Dimension Schedule
 • 材质 (S无缝 W有缝) Material S(Seamless)&W(Welded)
 • 炉号/标准 Heat Number&Standard

产品交货情况 Extend of Material Delivery:

序号 NO.	品名 Description	规格 Dimension	材质 Material	数量 Quantity (pcs)	炉号 Heat No.	备注 Remarks
88	EQUAL TEE	3/4" SCH40S	WP304/304L-S	25	S32640	ANSI B16.9-2012
104	RED TEE	3"*1.1/2" SCH80S	WP304/304L-S	5	S32640	ANSI B16.9-2012
106	RED TEE	4"*2" SCH40S	WP304/304L-S	15	S32640	ANSI B16.9-2012
130	CON RED	1.1/2"*1" SCH40S	WP304/304L-S	15	S32640	ANSI B16.9-2012
135	CON RED	3"*2" SCH40S	WP304/304L-S	60	S32640	ANSI B16.9-2012
137	CON RED	3"*2.1/2" SCH40S	WP304/304L-S	30	S32640	ANSI B16.9-2012

检测结果 (标准要求已符合, 见如下表格) Inspection Results(The Requirements are fulfilled as listed in Annex)

A. 化学分析 Chemical Analysis: [%]

炉号 Heat No.	C	Si	Mn	P	S	Cr	Ni	Nb	N	Mo
	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-12.0			
88	S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06		
104	S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06		
106	S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06		
130	S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06		
135	S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06		
137	S32640	0.021	0.52	1.23	0.019	0.005	18.12	8.06		

B. 机械性能 Mechanical Properties & Tensile Inspection:

炉号 Heat No.	屈服强度 Yield Strength(MPa) ≥205 σ 0.2	拉伸强度 Tensile Strength(MPa) ≥515	延伸率 Elongation A50(%) ≥28%	硬度 Hardness (HRB) ≤90	断面收缩率 Reduction of Area(Z%)	冲击试验 Charpy Impact(AK)
88	S32640	275	590	50	72	/
104	S32640	275	590	50	72	/
106	S32640	275	590	50	72	/
130	S32640	275	590	50	72	/
135	S32640	275	590	50	72	/
137	S32640	275	590	50	72	/

C. 检测及相关数据验证 Inspection and Related Data Verify:

尺寸检查 Dimensional Check	PASSED	压扁试验 Flattening Test	/
表面检查 Surface Quality Inspection	PASSED	射线 Radiography Examination	/
渗透探伤 Penetration Examination	/	晶间腐蚀 Corrosion Test	/
光谱分析 PMI	PASSED	硬度测试 Hardness Test	PASSED

D. 备注 Remarks:

NACE MR-0175 and NACE MR-0103 2010 Material free from mercury and radiation contamination
We hereby certify that the material has been made and tested in accordance with the above specification and the requirement called for on the order

检验工程师: 李伍军
Work Inspector

日期: 2014-06-11
Date
C. DRAYTON
Inspector



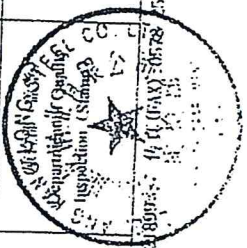
产品质量证明书
INSPECTION CERTIFICATE (EN 10204/3.1)

合同编号 (Contract No.): KL110140908-1
客户 (Customer): 浙江志达管业有限公司
证明编号 (Certificate No.): KL-024140905-W3

浙江康龙钢铁有限公司
Zhejiang Kanglong Steel Industry Co., Ltd

产品名称 Commodity		Stainless Steel Seamless Pipe		产品标准 Product Specification		交货状态 Supply Condition		溶液处理 Solution Annealed													
牌号 Heat No.		钢种 Steel Grade		批号 Batch No.		数量 (支) Pieces(s)		重量 (kg) Weight (kg)													
S12600		TP304L		KL14031210KSL14031211KSL14031212 KSL14031213KSL14031214		88.9*5.49/112.2*4.85/60.3*8.74 88.9*7.62/114.3*6.02		8478.00kg/7690.00kg/8830.00kg 8765.00kg/8930.00kg													
化学成分 Chemical Composition (%)																					
C		Si		P		S		Cr		Ni		Mo		N		Nb		Ti		V	
0.021		0.52		0.019		0.005		18.12		8.06											
拉伸试验 Tensile Test (纵向 Longitudinal) 室温 (At RT)										冲击试验 Impact Test (纵向 Longitudinal) V型缺口 Sharp V-notch 夏 (Wide): mm 室温 (At RT)											
屈服强度 Yield Strength		抗拉强度 R _m (N/mm ²)		延伸率 Elongation A%		冲击功 Individual (J)		平均 Average (J)		平扁试验 Flattening Test ε=0.05		扩口试验 Drift Expanding % Increase in O.D.		水压试验 Hydraulic Testing		环状拉伸 Ring Tensile					
275		590		50		/		/		Good		/		/		/					
外观, 尺寸 Visual, Shape and Dimension										晶粒度 Intergranular Corrosion Test											
符合尺寸等级 (good)										ASTM A262-2002 Satisfactory											
硬度 Hardness (HRB)										ASTM F213-09 Satisfactory											
72										ASTM A262-2002 Satisfactory											

SDMS n° 62329



我们的此证明: 证明管符合 LRQA 按照 EN 10204/3.1 认证的过程生产的产品符合客户要求。
We hereby certify that the pipes above have been manufactured in the processes approved by LRQA according to EN 10204/3.1 (the certificate No. QAC 6005863/A). The results of inspections and tests satisfy the requirements of customer Steel Making process: cold formed
地址: 浙江丽水市水阁工业集聚区绿谷大道 166 号
Add: No.166, Lvgu Avenue, Shuang Industrial Zone, Lishui City, China
电话 (TEL): 0578 2521988 2521989 2521992 2521993 2521994 2521995 2521996 2521997

cde 94593/32157





SDMS n° 62330

1/2

TUBES COMPANY PVT. LTD.

A NORSEK APPROVED & DNV APPROVAL OF MANUFACTURER, AN ISO 9001:2008, ISO 14001:2004,
BS OHSAS 18001:2007, PED & ADW / AD - 2000 - W0 Certified Company
MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES | TUBES | U-TUBES
GOVT. RECOGNISED EXPORT HOUSE

INSPECTION CERTIFICATE												F/QAC/12_REV.01	
CERTIFICATE AS PER EN 10204 - 3.1												T.C.NO :- MTCPL/2014-15/0218A9	
CUSTOMER NAME :- M/s STAPPERT France S.A.S.												DATE :- 27.09.2014	
P.O. NO. :- 227702				DATE :- 30.05.2014				L.C.NO :- 23001-00333672LYE				DATE :- 10.10.2014	
O.A.NO. :- 2014/06/7046/EXP						DATE :- 01.06.2014							
PRODUCT :- AUSTENITIC S. S. SEAMLESS PIPES (COLD DRAWN, SOLUTION ANNEALED & PICKLED)													
MAT.SPEC. :- ASTM A 312-13b, TP 304L, (AISI 304L)													
SR. NO.	HEAT NO.	DIMENSIONS										NO. OF PCS	TOTAL METER
17	11A247	33.40 MM OD X 4.55 MM THK X 5.5 TO 6.3 METER RL										48	282.810
CHEMICAL TEST													
SR. NO.	HEAT NO.	S	C	Si	Mn	P	S	Ni	Cr	Mo	N	Ti	
17	11A247		0.035	1.000	2.000	0.045	0.030	8.000	18.000	--	--	--	
			MAX	MAX	MAX	MAX	MAX	13.000	20.000	--	--	--	
		H	0.025	0.660	1.260	0.024	0.007	8.510	18.300	--	--	--	
		P1	0.025	0.687	1.274	0.025	0.008	8.586	18.375	--	--	--	
	P2	0.026	0.674	1.265	0.026	0.006	8.552	18.375	--	--	--		
MECHANICAL TESTS													
SR. NO.	TENSILE STRENGTH Rm MPa	YIELD STRENGTH Rp 0.2% MPa	YIELD STRENGTH Rp 1.0% MPa	ELON. A% G.L.=50 MM, G.W= FULL SPECIMEN	HARDNESS TEST MAX	FLARING TEST	FLANGE TEST	RING EXPANSION TEST	FLATTENING TEST	REVERSE FLATTENING TEST	REVERSE BEND TEST	OTHER TEST	
REQ.	485 MIN	170 MIN	--	35 % (MIN)	--	--	--	--	--	--	--	--	
17	598.00	324.00	N.A	56	N.A	N.A	N.A	N.A	OK	N.A	N.A	N.A	
	--	--	--	--									
REMARKS:-													
MARKING ON PRODUCT :- MAXIM S.S. SEAMLESS PIPE, SPECN, GRADE, SIZE, HEAT NO, (O.A.No/Sr. No.)													
HEAT TREATMENT :- SOLUTION ANNEALED AT TEMP. ABOVE 1040° C AND QUENCHED IN WATER.													
HYDRO TEST PRESSURE :- 2500 psi(g), (WATER USED HAVING CHLORIDE CONTENT LESS THAN 10 ppm & HOLDING TIME 10 SEC. MIN)													
EDDY CURRENT TEST :- N.A													
[1] MECHANICAL TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[2] PRODUCT ANALYSIS CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[3] 100% HYDRO TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[4] 100 % PMI TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[5] 100% DIMENSION AND VISUAL CHECKED BY MTCPL - FOUND SATISFACTORY.													
NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W= GAUGE WIDTH, N.A = NOT APPLICABLE.													
INSPECTOR'S/SURVEYOR'S SIGN					P.O. ITEM :- COMPLETE					 C. DRIVETON Inspector  MANAGER (Q.A.)			
WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER, ALL TEST RESULT ARE ACCEPTABLE.													

Office & Works

Unit-II, Survey No. 105, Nr. 66 KV Sub-Station, Chhatral-Pansar Road,
Ahmedabad-Mehsana Highway, Chhatral-382729, Ta. Kalol, Dist. Gandhinagar, Gujarat, INDIA.
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www.maximtubes.com



SDMS n° 62330

TUBES COMPANY PVT. LTD.

A Norsok Approved & DNV Approval of Manufacturer, AN ISO 9001:2008, ISO 14001:2004,
BS OHSAS 18001:2007, PED & ADW / AD - 2000 - W0 Certified Company
MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES | TUBES | U-TUBES
GOVT. RECOGNISED EXPORT HOUSE

INSPECTION CERTIFICATE										F/QAC/12_REV.01					
CERTIFICATE AS PER EN 10204 - 3.1										T.C.NO :- MTCP/2014-15/0288A11					
										DATE :- 31.10.2014					
CUSTOMER NAME :- M/s STAPPERT France S.A.S.															
P.O. NO. :- 227702				DATE :- 30.05.2014				L.C.NO :- 23001-00333672LYE				DATE :- 10.10.2014			
O.A.NO. :- 2014/06/7046/EXP										DATE :- 01.06.2014					
PRODUCT :- AUSTENITIC S. S. SEAMLESS PIPES (COLD DRAWN, SOLUTION ANNEALED & PICKLED)															
MAT.SPEC. :- ASTM A 312-13b, TP 304L, (AISI 304L)															
SR. NO.	HEAT NO.	DIMENSIONS										NO. OF PCS	TOTAL METER		
16	11A247	33.40 MM OD X 3.38 MM THK X 5.5 TO 6.3 METER RL										17	99.850		
CHEMICAL TEST															
SR. NO.	HEAT NO.	S	C	Si	Mn	P	S	Ni	Cr	Mo	N	Ti			
			0.035	1.000	2.000	0.045	0.030	8.000	18.000	--	--	--			
			MAX	MAX	MAX	MAX	MAX	13.000	20.000	--	--	--			
16	11A247	H	0.025	0.660	1.260	0.024	0.007	8.510	18.300	--	--	--			
		P1	0.025	0.645	1.256	0.025	0.008	8.525	18.356	--	--	--			
		P2	0.024	0.647	1.263	0.024	0.007	8.547	18.356	--	--	--			
MECHANICAL TESTS															
SR. NO.	TENSILE STRENGTH Rm MPa	YIELD STRENGTH Rp 0.2% MPa	YIELD STRENGTH Rp 1.0% MPa	ELON. A% G.L.=50 MM, G.W= FULL SPECIMEN	HARDNESS TEST MAX	FLARING TEST	FLANGE TEST	RING EXPANSION TEST	FLATTENING TEST	REVERSE FLATTENING TEST	REVERSE BEND TEST	OTHER TEST			
REQ.	485 MIN	170 MIN	--	35% (MIN)	--	--	--	--	--	--	--	--			
16	612.00	320.00	N.A	59	N.A	N.A	N.A	N.A	OK	N.A	N.A	N.A			
	--	--	--	--											
REMARKS:-															
MARKING ON PRODUCT :- MAXIM S.S. SEAMLESS PIPE, SPECN. GRADE, SIZE, HEAT NO, (O.A.No/Sr. No.)															
HEAT TREATMENT :- SOLUTION ANNEALED AT TEMP. ABOVE 1040° C AND QUENCHED IN WATER.															
HYDRO TEST PRESSURE :- 2500 psi(g), (WATER USED HAVING CHLORIDE CONTENT LESS THAN 10 ppm & HOLDING TIME 10 SEC. MIN)															
EDDY CURRENT TEST :- N.A															
[1] MECHANICAL TEST CARRIED OUT BY MTCP - FOUND SATISFACTORY.															
[2] PRODUCT ANALYSIS CARRIED OUT BY MTCP - FOUND SATISFACTORY.															
[3] 100% HYDRO TEST CARRIED OUT BY MTCP - FOUND SATISFACTORY.															
[4] 100% PMI TEST CARRIED OUT BY MTCP - FOUND SATISFACTORY.															
[5] 100% DIMENSION AND VISUAL CHECKED BY MTCP - FOUND SATISFACTORY.															
NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W= GAUGE WIDTH, N.A = NOT APPLICABLE.															
INSPECTOR'S/SURVEYOR'S SIGN					P.O. ITEM :- COMPLETE					 MANAGER (Q.A.)					
WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER, ALL TEST RESULT ARE ACCEPTABLE.															

Office & Works

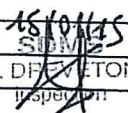

Unit-II, Survey No. 105, Nr: 66 KV Sub-Station, Chhatral-Pansar Road,
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SDMS n° 62331
MA

TUBES COMPANY PVT. LTD.

A NORSOK APPROVED & DNV APPROVAL OF MANUFACTURER, AN ISO 9001:2008, ISO 14001:2004,
BS OHSAS 18001:2007, PED & ADW / AD - 2000 - W0 Certified Company
MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES | TUBES | U-TUBES
GOVT. RECOGNISED EXPORT HOUSE





INSPECTION CERTIFICATE										F/QAC/12_REV.01		
CERTIFICATE AS PER EN 10204 - 3.1										T.C.NO :- MTCPL/2014-15/0177A13		
CUSTOMER NAME :- M/s STAPPERT France S.A.S.										DATE :- 29.08.2014		
P.O. NO. :- 227359										DATE :- 03.04.2014		
O.A.NO. :- 2014/05/7019/EXP										DATE :- 01.05.2014		
PRODUCT :- AUSTENITIC S. S. SEAMLESS PIPES (COLD DRAWN, SOLUTION ANNEALED & PICKLED)												
MAT.SPEC. :- ASTM A 312-13b, TP 304L, (AISI 304L)												
SR. NO.	HEAT NO.	DIMENSIONS								NO. OF PCS	TOTAL METER	
15	11A169	1" NB X SCH 10s [33.40 MM OD X 2.77 MM THK] X 5.5 TO 6.3 METER RL								44	254.160	
CHEMICAL TEST												
SR. NO.	HEAT NO.	S	C	Si	Mn	P	S	Ni	Cr	Mo	N	TI
			0.035	1.000	2.000	0.045	0.030	8.000	18.000	--	--	--
			MAX	MAX	MAX	MAX	MAX	13.000	20.000	--	--	--
15	11A169	H	0.023	0.510	1.190	0.032	0.008	8.250	18.260	--	--	--
		P1	0.023	0.525	1.174	0.030	0.007	8.256	18.263	--	--	--
		P2	0.024	0.563	1.178	0.031	0.008	8.256	18.247	--	--	--
MECHANICAL TESTS												
SR. NO.	TENSILE STRENGTH Rm MPa	YIELD STRENGTH Rp 0.2% MPa	YIELD STRENGTH Rp 1.0% MPa	ELON. A% G.L=5.65√A, G.W= FULL SPECIMEN	HARDNESS TEST MAX	FLARING TEST	FLANGE TEST	RING EXPANSION TEST	FLATTENING TEST	REVERSE FLATTENING TEST	REVERSE BEND TEST	OTHER TEST
REQ.	485 MIN	170 MIN	--	35 % (MIN)	--	--	--	--	--	--	--	--
15	598.00	302.00	N.A	60	N.A	N.A	N.A	N.A	OK	N.A	N.A	N.A
	--	--	--	--								
REMARKS:-												
MARKING ON PRODUCT :- MAXIM S.S. SEAMLESS PIPE, SPECN, GRADE, SIZE, HEAT NO, (O.A.No/Sr. No.)												
HEAT TREATMENT :- SOLUTION ANNEALED AT TEMP. ABOVE 1040° C AND QUENCHED IN WATER.												
HYDRO TEST PRESSURE :- 2500 psi(g), (WATER USED HAVING CHLORIDE CONTENT LESS THAN 10 ppm & HOLDING TIME 10 SEC. MIN)												
EDDY CURRENT TEST :- N.A												
[1] MECHANICAL TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.												
[2] PRODUCT ANALYSIS CARRIED OUT BY MTCPL - FOUND SATISFACTORY.												
[3] 100% HYDRO TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.												
[4] 100 % PMI TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.												
[5] 100% DIMENSION AND VISUAL CHECKED BY MTCPL - FOUND SATISFACTORY.												
NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W= GAUGE WIDTH, N.A = NOT APPLICABLE												
INSPECTOR'S/SURVEYOR'S SIGN					P.O. ITEM :- COMPLETE				 G. DHARMETSON Inspector			
									 MANAGER (Q.A.)			
WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER, ALL TEST RESULT ARE ACCEPTABLE.												

Unit-II, Survey No. 105, Nr. 66 KV Sub-Station, Chhatral-Pansar Road,
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SDMS n° 62352

112

Cde 94593/32157

Walzwerke Einsal GmbH  VAT Reg. No. DE123841325 Walzwerke Einsal GmbH - Post Box 20 - 58705 Nechtml-Vulknowerde STAPPERT Deutschland GmbH Postfach 11 11 31 40511 Düsseldorf Deutschland		Inspection Certificate: DIN EN 10204/3.1 Page 1
No. WZ1214-00725 of 16.12.14		Your Order No. 10-181248/R Shipment No.: VL14-08155 Referenz-Nr.
Symbol of Manufacturers 	Surveyor of Inspection 	CE-sign 0045 
our works No. AB14-12015 Item ID Size 14301 Square x 90,00 mm Weight 1.387 KG	Material Number 1.4301 Standard Grade of Material X5CrNi18-10 1.4301 / 1.4307 / AISI 304 / 304 L	Heat Number 254326 Method of melting: E
Chemical analysis C % 0,024 SI % 0,40 Mn % 1,84 P % 0,025 S % 0,026 Cr % 18,1 Ni % 0,32 Mo % 0,25 Co % 0,091 N % 0,046 Cu % 0,29		
Product Information Steelbars, 14301 X5CrNi18-10 hot rolled, DIN EN 10059 tol. see below, quenched, pickled, straightened, with short lengths, see below, with stamping see below, with colour marks see below, in bundles		
Addition Information bar length mm: 4000-6000, short lengths: from 1000 mm to max. 10 %, stamping: WNR/EW/HEAT-NO./WEE, colour marking: one end WHITE, packaging size: ca.1.000 kg, quality: 1.4301 / 1.4307 / AISI 304 / 304 L		
Requirements test certificate: DIN EN 10204/3.1 rev. 01/2005, language of test certificate: german / english, with: CE-sign: BauPVO (305/2011/EU) acc. to: DIN EN 10088 part 5 rev. 07/2009, delivery instruction: TL028 rev. 4, tolerance of dimension/chape: DIN EN 10059 rev. 02/2004, request of technical delivery specification: DIN EN 10272 rev. 01/2008, AD 2000 data sheet W 2 rev. 02/2008, AD 2000 data sheet W 10 rev. 11/2007, PED 97/23 EG, DIN EN 10088 part 3 rev. 09/2005, ASTM A 479 / A 479 M rev. 2014, ASME SA 479 / SA 479 M SEC. II PART A rev. 07/2011a, NACE Standard MR 0175 / ISO 15159 part 1 rev. 2001, DIN EN ISO 3051 part 2 procedure A rev. 08/1998, ASTM A 182 / A 182 M rev. 2014, ASME SA-182/SA-182M SEC. II PART A rev. 07/2011a, ASTM A 276 rev. 2013, ASME SA-276 SEC. II PART A rev. 07/2011a, NACE Standard MR 0103 rev.		





Sample	PR1114-00845	PR1114-00846		
Mechanical properties				
Rp 0,2% Mpa	264	259		
Rp 1,0% Mpa	305	299		
Rm Mpa	567	560		
A5%	59,9	58,8		
A50%	59,9			
Z%	63,4			
Impact test				
KCV/RT/Longitudinal Joule	264 / 267 / 202	272 / 268 / 267		
Hardness				
HRC	3			

The delivery corresponds to the requirements mentioned. The certificate has been established by machine and acc. to EN 10204 it is legal without signature. Telephone 0 23 52 3 32-0 Telefax: 0 23 52 33 21 92	Walzwerke Einsal GmbH QA-department Feldmann / Seeger Surveyor of Inspection
--	---

24/11/15
SDMS
C. DRIBETON
Inspection

SDMS n° 62358

2/2

Walzwerke Einsal GmbH		Inspection Certificate: Page 2	
VAT Reg. No DE123841325		DIN EN 10204/3.1	
 <p>Walzwerke Einsal GmbH - Post Box 26 - 40769 Neuss/Walzwerke STAPPERT Deutschland GmbH Postfach 11 11 31 40511 Düsseldorf Deutschland</p>		No. WZ1214-00725	of 16.12.14
		Your Order No.: 10-18124BR	
		Shipment No.: VL14-08165	Referenz-Nr.
		Symbol of Manufacturers	Surveyor of Inspection
			
		CE-sigrn 0045 	
our works No. AB14-12015	Item 10	Size 14301 Square x 90,00 mm	Weight 1,367 KG
Material Number	1.4301		Standard Grade of Material X6CrNi18-10
Heat Number	254326		1.4301 / 1.4307 / AISI 304 / 304 L
Structure			Method of milling: E
Structure			
Grain size	8		
Corrosion resistance			
IC-test (Delivery condition)	ok		
IC-test (sensitized)	ok		
Surface condition:	acc. to DIN EN 10272 charts 6/1D		
Radioactivity:	At the steel mill the raw material has been tested for radioactivity, Radioactivity no complaint.		
Visual Inspection:	Without objection		
Dimension Inspection:	Without objection		
Test of Identity:	Without objection		
Heat Treatment:	From 1050°C quenched		

The delivery corresponds to the requirements mentioned.
 The certificate has been established by machine and acc. to EN 10204 it is legal
 without Signature.

Telephone 0 23 52 3 32-0 Telefax: 0 23 52 33 21 92

Walzwerke Einsal GmbH
 QA-department

Feldmann / Seeger

Surveyor of Inspection

cde 94565/32157

SDMS n° 62366

N-Nr-N 1310267417-01 V01



Aperam - Stainless France
Aperam Isbergues
62330 Isbergues
FRANCE

MILL CERTIFICATE BS EN 10204/3.1
CERTIFICAT DE RECEPTION NF EN 10204/3.1
ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1

Ausgestellt im Einvernehmen mit dem TÜV SÜD - Auf Gegenzeichnung wird verzichtet
Issued in accordance with TÜV SÜD - Verification is not required
Etabli en accord avec le TÜV SÜD - Dispense de contresignature
A.D.2000 Merkblatt W0 - W2 - W10 - PED 97/23 EC - EN 13445-2

N° JACQUET :

f. 680.

ISO 9001 V2008 - ISO TS 16949 V2009 - ISO 14001 V 2004

Manufacturer's works order number
N° de la commande usine productrice
Werksauftragsnummer
80168392 /01-84828/1

Surveyor's mark
Cachet de l'expert
Stempel des
Werkssachverständigen

UI2

Purchaser and/or consignee
Client et/ou destinataire
Besteller und/oder Empfänger

Purchaser's order number
N° de commande client
Kundenbestellnummer
309163724

Product - Produit - Erzeugnis
COLD-ROLLED COIL
BOBINE LAMINEE A FROID
KALTGEWALZTES BAND

APERAM SS&S FRANCE
CENTRE DE SERVICE BP 53
RUE R.SALENGRO
62330 ISBERGUES
FRANCE

Customer article number
N.articlé client
Artikelnummer des Kunden
ART031957

Steel designation
Désignation de l'acier
Stahlbezeichnung
EN 10028-7 / 08 - 1.4307 - 1.4301
ASTM A 240 / 13 - TYPE 304L - TYPE 304
ASME SA 240 / 13 - TYPE 304L - TYPE 304
EN 10088-2 / 05 - 1.4307 - 1.4301
EN 10088-4 / 09 - 1.4307 - 1.4301

Finish
Présentation
Ausführung
2B
2B
2B
2B
2B

Steelmaking process
Mode d'élaboration de l'acier - Stahlherstellungsverfahren
Prod.proces: Electric arc furnace - VOD/AOD - Continuous casting
Proc.fabric.: Four à arc - VOD/AOD - Coulée continue
Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage

Any supplementary requirements
Prescriptions supplémentaires - Zusätzliche Anforderungen

Product delivery condition
Etat de livraison du produit - Lieferzustand

Solution treated
Hypertempe : 1040-1100 C
Loessungsgl+abgeschreckt

Forced Air
Air forcé Gebläse Luft

CORROSION TEST:ASTM A 262-E :OK

Identification of the product
Identification du produit - Identifizierung des Erzeugnisses
MELTED IN BELGIUM, MADE IN FRANCE

Dimensions
Dimensions - Abmessungen
Thickness
Epaisseur - Staerke
2,000 mm

Number of pieces
Nb de pièces - Stueckzahl
1

Coll n.
N.Bobine - Band Nr.
79192

Heat n.
N.Coulée - Schmelz Nr.
337076

Width
Largeur - Breite
1000,00 mm

Net weight
Poids net - netto Gewicht
19440 KGS

CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG

	C	Si	Mn	Ni	Cr	Mo	Ti	N	S	P	Co						
Required - Exigé %mini Anforderung. %maxi	0,030	0,75	2,00	8,00 10,50	17,50 19,50			0,100	0,0150	0,045							
Cast Analysis Analyse coulée Analyse Schmelze	0,018	0,36	1,56	8,05	18,15			0,078	0,0039	0,031	0,164						

Positive material identification carried out : OK
Tests de vérification de la conformité de la nuance fournie : OK
Verwechslungsprüfung wurde durchgeführt : OK

Location (1)

MECHANICAL PROPERTIES - PROPRIETES MECANIQUES - MECANISCHE WERTE

Room temperature - Température ambiante - Raumtemperatur

Test temperature (°C) :

Direction (2)	Yield or proof strength Limite d'élasticité Dehngrenze MPa	Tensile Strength Résistance à la traction Zugfestigkeit MPa	Elongation after fracture Allongement après rupt. Bruchdehnung %		Hardness Dureté Haerte	Yield or proof strength Limite d'élasticité Dehngrenze MPa	Tensile str. Résist. MPa Zugfestigkeit	Elongation % Allongement Bruchdehnung
			80mm	50mm				
1 T	Required Exigé Anforderung	326	663	45	40			
	mini	230	540					
2 T	Obtained Obtenu Ergebnisse	326	663	48	48			
	maxi	260	700			92		

Impact strength test
Essai de résilience
Kerbschlagzähigkeitstest

Corrosion test
Test de corrosion
Korrosionstest

C40 (K°c)

C44

EN ISO 3651-2 :OK

Internal cleanliness:

A: B: C: D:

Location of the sample (1)
Emplacement de l'échantillon
Lage des Probenabschnittes
1. Front - Début - Anfang
2. Back - Fin - Ende
3. Middle - Milieu - Mitte

The delivery is in accordance with the order
La fourniture est conforme aux exigences de la commande
Die lieferung entspricht den Bestellbedingungen

Organisation inspection
Organisme et/ou service contrôle
Ueberschungsabteilung

Packing list
Avis d'expédition
Lieferscheinnummer

131015102001-100676

Service Métallurgique

Direction of the test pieces (2)
Orientation des éprouvettes
Probenrichtung
T. Transverse - Travers - Quer
L. Longitudinal - Long - Laengs



Marking, inspection and measurement : without objection
Contrôle de marquage, d'aspect et de dimensions : satisfaisants
Prüfung der Stempelung, des Oberflächenaspekts und der Abmessungen : ohne Beanstandung

15/10/2013

M. THOMAS

The inspector
Le responsable
Der Werkssachverständige

SDMS n° 62366

 <p>Correspondance address Adresse de correspondance - Adresse für briefwechsel</p> <p>Aperam - Stainless France Aperam Isbergues 62330 Isbergues</p>	<p>Annex to certificate Annexe du CCPU Anlage Zum Zeugnis</p> <p>1310267417-01 V01</p>	<p>Certificate CCPU - Zeugnis</p> <p>1310267417-01 V01</p>
	<p>Certificatenumber (TÜV) N° du CCPU (TÜV) Zertifikatnr (TÜV)</p> <p>0036-CPD-42-2011</p>	
	<p>Year Année Jahr</p> <p>13</p>	
<p>Manufacturer's works order number N° de la commande usine productrice Werksauftragsnummer</p> <p>80168392 /01-84828/1</p>	<p>Purchaser and/or consignee Client et/ou destinataire Besteller und/oder Empfänger</p> <p>APERAM SS&S FRANCE CENTRE DE SERVICE BP 53 RUE R.SALENGRO 62330 ISBERGUES FRANCE</p>	<p>Purchaser's order number N° de commande client Kundenbestellnummer</p> <p>309163724</p>
		<p>Customer article number N° d'article client Artikelnummer des Kunden</p> <p>ART031957</p>
<p>Identification of the product Identifikation du produit - Identifizierung des Erzeugnisses</p>	<p>Dimensions Dimensions - Abmessungen</p>	
<p>Coil n° N° de bobine - Band Nr</p> <p>79192</p>	<p>Thickness Epaisseur - Dicke</p> <p>2,000 mm</p>	<p>Width Largeur - Breite</p> <p>1000,00 mm</p>
		<p>Length Longueur - Länge</p>
<p>Stainless steel / Acier inoxydable / Rostfreier Stahl</p>		
<p>EN 10088-4 /09</p>		
<p>Intended uses : building constructions or civil engineering Usages prévus : construction immobilière ou génie civil Vorgesehene Vervendungen : Hochbauten und Ingenieurbauwerke</p>		
<p>Tolerances on dimensions and shape: Tolérances sur les dimensions et sur forme: Grenzabmasse und Formtoleranzen</p> <p>EN ISO 9445</p>		
<p>Steel Acier Werkstoff</p> <p>1.4307</p>		
<p>COLD-ROLLED COIL BOBINE LAMINEE A FROID KALTGEWALZTES BAND</p>		
<p>COIL - BOBINE - BAND</p>		
<p>Elongation / Allongement / Bruchdehnung Tensile strength / Résistance à la traction / Zugfestigkeit Yield Strength / Limite d'élasticité / Dehngrenze Impact strength / Résistance au choc / Kerbschlagzähigkeit Weldability / Aptitude au soudage / Schweisseignung Durability / Durabilité / Dauerhaftigkeit</p>		
<p>Regulated substance : no performance determined Substance réglementée : aucune performance déterminée Regulierter Stoff : keine Leistung festgestellt</p>		
<p>N° JACQUET :</p> <p>f. 680</p>		

ede 94565/32157

ACRONI

ACRONI d.o.o., Cesta Borisa Kidriča 44, SI-4270 Jesenice

Izdajatelj certifikata
Aussteller der Bescheinigung
Originator of the document

KONTROLA KAKOVOSTI
Telefon: +386 4 584 10 40
Telefax: +386 4 584 10 68
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E-mail: miran.pirnat@acroni.si

Potrdilo o prevzemu 3.1/ Abnahmeprufzeugnis 3.1/ Inspection certificate 3.1

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St. / Nr. / No.

EN 10 204 3.1

Datum / Datum / Date

310083186-3

12.06.2014

Narocnik / Kunde / Customer

JACQUET SLYONS
ZA GRAMMONT

n° 62367

9 RUE GARIBALDI
F-69800 ST PRIEST

Narocilo / Bestellung Nr. / Order No.

46565 disp.38530

Dobavni list / Lieferschein / Despatch note

310083186 z/vom/from 12.06.2014

FRANCE

Izdelek / Erzeugnis / Product

BLECH

Vrsta peči / Erschmelzungsart / Melting furnace

E+VOD

Znak izvedenca TK

Zeichen des sachverständigen
Inspectors' stamp



Znak proizvajalca

Zeichen des Herstellerwerks
Mark of the Manufacturer



Specifikacije / Vorschriften / Specifications

ASTM A240/A 240 M/ED.12

ASME SA240/SA240M, BPVC, Sect. II, Part A, Ed. 2013

PED/97/23/EC

Tip / W.nr. / Type

304L/304

304L/304

Pov. / Fläche / Finish

No.:1

No.:1

Koroz. test / Int.krist.korr. / Corrosion test

ASTM A262 PRACTICE E:OK

NACE MR 0175-2012

NACE MR 0103-2012

EN 10028-7/ED.2007, EN 10088-2/ED.05

X5CrNi18/10/
X2CrNi18/9

1D

EN ISO 3651-2: OK

W.Nr.1.4301/1.4307

AD2000 Merkblatt W10 Ed. 2008

AD2000 Merkblatt W2 Ed. 2011

X2CrNi18/9

W.Nr.1.4307

Obseg dobave / Umfang der Lieferung / Extent of material delivery

Poz. / Pos. / Item	St. sarže / Schmelzen Nr. / Heat No.	St. plošče / Walztafel / Plate No.	Teža neto / Gewicht / Weight kg	Dimenzije / Abmessungen / Dimensions mm	St. kom. / Stückzahl / Quantity	St. vzorca / Probe Nr. / Sample No.
72	289096	58963	755	8.00 / 2000 / 6000	1	58964 T
72	289096	58963	760	8.00 / 2000 / 6000	1	58964 T
72	289096	58964	760	8.00 / 2000 / 6000	1	58964 T
72	289096	58964	768	8.00 / 2000 / 6000	1	58964 T

Mehanske lastnosti / Mechanische Eigenschaften / Mechanical properties

St. vzorca / Probe Nr. / Sample No.	Smer vzorca / Proben lage / Position	Nap.tecenja / Dehn grenze / Yield 0.2% MPa	Nap.tecenja / Dehn grenze / Yield 1% MPa	Nat.lrdnost / Zugfestigkeit / Tensile str. MPa	Raztezok / Bruchdehnung / Elongation / AS % / A50 % / A80 %	Kontrakt. / Einschnurung / g	Trdota / Harte / Hardness HB	Zilavost / Kerbschlag / Impact pri / smer bel / age / at / posit. / °C
Zahteva / Anforderung.	MIN	210	250	520	45		201	60 20
	MAX			700				
58964 T	P	276	321	590	54.0 57.0		170	345 356 369 20

G - Glava / Kopf / Top N - Noga / Fuss / Bottom V - Vz dolžno / Längs / Longitudinal P - Precno / Quer / Transverse Upojib / Blege / Bend : 0.5a

N° JACQUET :

f. 798 - 788

300 - 304

22.10.14
SLYONS
C. DREVERON
Inspection

ACRONI
Zig in oddpis
ACRONI d.o.o. in podpis
Cesta Borisa Kidriča 44, SI-4270 Jesenice
Član skupine SIJ
Member of Slovenian Steel Group

19/72

ACRONI

ACRONI d.o.o., Cesta Borisa Kidriča 44, SI-4270 Jesenice

Izdajatelj certifikata
Aussteller der Bescheinigung
Originator of the document

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E-mail: miran.pirnat@acroni.si

Potrdilo o prevzemu 3.1/ Abnahmeprüfzeugnis 3.1/ Inspection certificate 3.1

Sl./Nr./No. 310083186-3

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Kemická analýza / Chemische Zusammensetzung / Chemical Composition

Sarža/Schmelzen Nr. / %C	%Si	%Mn	%P	%S	%Cr	%Ni	%B	%N	%Co	Ferrite
289096	0.026	0.32	1.88	0.040	0.001	18.30	8.17	<0.0005	0.0836	0.12

Opomba / Bemerkungen / Remarks

SDMS n° 62357

WARMBEHANDLUNG : LOSUNGSGLUGEN BEI MIN. 1050°C, WASSER ABGESCHRECKT !

- OBERFLÄCHEN UND MASSPRÜFUNG : OHNE BEANSTANDUNG NACH EN 10029 DICKE CLASS B UND EN 10163-2 B3

- PRÜFUNG AUF WERKSTOFFVERWECHSLUNG : OHNE BEANSTANDUNG

- PRÜFUNG AUF BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION

NACH EN ISO 3651-2 : OHNE BEANSTANDUNG

HEAT TREATMENT : SOLUTION ANNEALED AT MIN. 1050°C, WATER QUENCHED

- VISUAL AND DIMENSIONAL CHECK : OK

- SPECTROMETER SORTING TEST : OK

- INTERGRANULAR CORROSION TEST ACCORDING TO

ASTM A 262 PRACTICE E : No cracks were observed at 20X magnification!

Im Einvernehmen mit dem TÜV Bayern e. V. (08/1965). Gegenzeichnungsverzicht durch TÜV Bayern Sachsen e. V. mit Schreiben vom 20.06.1996. Zertifiziert nach DGRL 97/23/EG, Anhang I, Abschnitt 4.3 durch TÜV SÜDDEUTSCHLAND Bau und Betrieb GmbH, Benannte Stelle-Kennnummer 0036 (Oktober 2002).

As agreed with TÜV Bayern e. V. (08/1965). Countersignature by TÜV Bayern Sachsen e. V. is not required (letter of 20 June 1996). Certified according to PED 97/23/EC, Annex I, Paragraph 4.3 by TÜV SÜDDEUTSCHLAND Bau und Betrieb GmbH, notified body-registration number 0036 (October 2002).

THE MATERIAL COMPLIES WITH THE REQUIREMENTS OF THE ORDER.

NO WELD REPAIR

RADIOACTIVITY CONTAMINATION MEASURED WITH EXPLORANIUM

GR - 320 LAB: NO CONTAMINATION

Es wird bestätigt, daß die Lieferung den Bestellanforderungen entspricht.

We confirm herewith that the delivered material complies with the terms of the order.


N° JACQUET :

f. 798 - 799

800 - 801

ACRONI 19/72
ACRONI, čig. in podpis
Certified stamp and signature
Član skupe in podpis
Member of Slovenian Steel Group

cd 84565132157

ACERINOX EUROPA FABRICA DEL CAÑO DE GIBRALTAR PALMONES (LOS BARRIOS) TEL: (34) - 956 62 93 00 FAX: (34) - 956 62 93 11 P.O. BOX 83 11370 LOS BARRIOS (CADIZ)				INSPECTION CERTIFICATE CERTIFICAT D'INSPECTION				3.1											
ACCORDING TO EN 10204		CERTIFICATE N° 52 2014 4085 20002 *		U° CERTIFICAT															
CUSTOMER CLIENT: JACQUET LYON ZA Grammont - 0 rue Garibaldi 69800 SAINT PRIEST FRANCE		OUR ORDER N° NOTRE N° CO: VL 2097		YOUR ORDER N° VOTRE N° CO: 47467 REV 00		INSPECTOR'S STAMP POINÇON DE L'INSPECTEUR:		STEELMAKING PROCESS PROCÉDE D'ÉLABORATION: A.O.D.											
REQUIREMENTS EXIGENCES: ASTM A240E014/A480E014a-ASME Section SA240(SA480E013 EN 10088-2:2005 EN-ISO-9444-2(Thickness Tolerances) ASTM A240E014/A480E014a-ASME Section SA240(SA480E013		INTERGRANULAR CORROSION CORROSION INTERGRAULAIRE: ASTM-A-262 PRACTICA E ASTM-A-262 PRACTICA E		GRADE MATIÈRE: Acx 150 TP-304 Acx 150 1,4307 Acx 150 TP-304L		FINISH FINI: N°1 10 11		SDMS n° 6236 8											
COIL / BOX BOBINE/CAISSE		CONTENT CONTENU		DIMENSIONS DIMENSIONS			MARKS MARQUE	QUANTITY QUANTITÉ	TEST N° ECHANTILLON										
C2079P C2079R		02H3EH B 02H3EH B		THICKNESS ÉPAISSEUR	WIDTH LARGEUR	LENGTH LONGUEUR	20 21	2 2	02H3EH 02H3EH	C C									
CHEMICAL ANALYSIS / COMPOSITION CHIMIQUE (%)																			
HEAT N° COULEE:		C	CR	MN	N	NI	P	S	SI	CO									
H3EH		0,017	17,770	1,622	0,092	8,060	0,033	0,002	0,337	0,182									
MECHANICAL PROPERTIES / C-A-R-A-C-T-E-R-I-S-T-I-Q-U-E-S M-E-C-A-N-I-Q-U-E-S																			
TEST N° ECHANTILLON		PROBE SIT TYPE	Rm N/mm2	Rp 0.2 N/mm2	Rp 1.0 N/mm2	A50 %	A5 %	HRB	A200 %										
02H3EH		C T	634,38	342,69	391,03	51,68	52,68	91,00	50,68										
REMARKS / REMARQUES						SURFACE AND DIMENSIONAL CONTROL INSPECTION DIMENSIONNELLE ET VISUELLE													
Temperatura de hipertemple entre 1050 y 1100 ° C. The delivery is in accordance with the order						22/10/15 SDMS C. BRAVEYON Inspector					SATISFACTORY SATISFAISANT								
N° JACQUET : f. 1097 f. 1098						WORK INSPECTOR INSPECTEUR:					A. Heredia								
											A. Heredia								
											Palmones, 26 NOVIEMBRE 2014								

ACERINOX EUROPA
 FABRICA DEL CAPO DE GIBRALTAR
 PALMAYES (LOS BARRIOS)
 TRFID. (34) - 955 62 93 00
 FAX (34) - 955 62 93 11
 P.O. BOX 83
 11370 LOS BARRIOS (CADIZ)



Abnahmeprüfzeugnis INSPECTION CERTIFICATE

SDMS n° 62368 22
 Prüf - Nr. 52 2014 4085 20001 E
 Inspection No.

ACCORDING TO EN 10204 3.1
 NACH

*Zustimmungsschreiben des TÜV Baden vom 21. Februar 1993
 Letter of approval from the TÜV Baden dated 21-2-93
 Laut Schreiben des TÜV Baden e. V. vom 26 Juni 1.989 wird auf die Gegenseignung verzichtet.
 TÜV Baden renounce to the countersignature according their letter dated 26-6-89

Besteller - Customer: **JACQUET LYON** Auftrags Nr - Our order n°: **VL 2097** Bestellung Nr - Your order n°: **47467 REV 00**

Prüfgegenstand - Article: **BLECH AUS BAND (SHEET)** Werkstoff Nr und Lieferzustand - Material n° and Condition of Delivery: **1.4301/1.4307 1D**

Werkstoff - Normbez Standard - Grade of Material: **X5 CrNi 18-10(X2CrNi18-9)** Werksbez - Works Grade: **Acx - 150** Erשמלזונגסארט - Steelmaking Process: **A = AOD Verfahren - AOD Process A**

Anforderungen - Technical requirements: **EN 10028-7/TRB.100/AO-2000-MERKBLÄTT WZ/WIO DGRL 97/23/EG (PED) EN-ISO-9444-2(Thickness Tolerances)** Kennzeichnung - Marking: **Smelzennummer - II° of coil**

Zeichen des Lieferwerks - Brand of the manufacturer: **ACERINOX** Stempel des Sachverständigen - Inspector's stamp: **4511**

Pos Nr. Item N°	Stückzahl Quantity	Abmessung - Dimensions mm	Schmelze Nr Heat N°	Probe Nr Test N°
20	2	10,000 x 1,500,00 x 6,000,00	H3EH	02H3EH
21	2	10,000 x 1,500,00 x 6,000,00	H3EH	02H3EH

Chemische Analyse - Chemical Composition (%)

Schmelze Nr Heat N°	C	CR	MN	N	NI	P	S	SI	CO
Anforderungen Requirements	0,030	17,500	2,000	0,100	8,000	0,045	0,015	1,000	
H3EH	0,017	17,770	1,622	0,092	8,060	0,033	0,002	0,337	0,182

Mechanische Eigenschaften - Mechanical Properties

Probe Nr Test N°	Prob.-Lage Pos of Test	Abmessungen des Probestabs Dim. of specimen	Rm N/mm2	Rp 0.2 N/mm2	Rp 1.0 N/mm2	A5 %
Anforderungen Requirements		Breite x Dicke Width x Thickness mm	520,00 720,00	210,00	250,00	45,00
02H3EH	C T	26,000 x 10,00	634,38	342,69	391,03	52,68

Besichtigung und Masskontrolle wurden durchgeführt: O.B.
 Surface and dimensions controlled: O.K.
 Der Werkstoff ist beständig gegen interkristalline Korrosion gemäß ISO 3651-2
 The material is resistant to intergranular corrosion test according to EN ISO 3651-2
 Spektroskopische Identitätsprüfung: O.B.
 Spectrometrical identity test: O.K.
 Wärmebehandlung: Glühen bei 1050 - 1100 °C.
 Heat treatment: Und Abschrecken mit Luft cooling with air.
 Die Lieferung entspricht der Bestellung.
 The delivery is in accordance with the order
 Issued in agreement with TÜV SÜD Industrie Service GmbH (02/1983)

N° JACQUET :
 p 1097
 1098.

WERKSACHVERSTÄNDIGER
 WORK INSPECTOR
 A. Herádia

Palmones, 26. NOVIEMBRE 2014


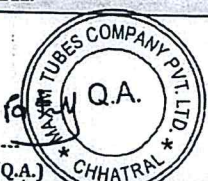


SDMS n° 62409

ede 94593/32157

TUBES COMPANY PVT. LTD.

A NORSOK APPROVED & DNV APPROVAL OF MANUFACTURER, AN ISO 9001:2008, ISO 14001:2004,
BS OHSAS 18001:2007, PED & ADW / AD - 2000 - W0 Certified Company
MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES | TUBES | U-TUBES
GOVT. RECOGNISED EXPORT HOUSE

INSPECTION CERTIFICATE										F/QAC/12_REV.01			
CERTIFICATE AS PER EN 10204 - 3.1										T.C.NO :-MTCPL/2014-15/0177A20_REV.01			
CUSTOMER NAME :- M/s STAPPERT France S.A.S.										DATE :- 04.02.2015			
P.O. NO. :- 227359										DATE :- 03.04.2014			
O.A.NO. :- 2014/05/7019/EXP										DATE :- 01.05.2014			
PRODUCT :- AUSTENITIC S. S. SEAMLESS PIPES (COLD DRAWN, SOLUTION ANNEALED & PICKLED)													
MAT.SPEC. :- ASTM A 312-13b, TP 304L, (AISI 304L)													
SR. NO.	HEAT NO.	DIMENSIONS								NO. OF PCS	TOTAL METER		
22	11A178	2" NB X SCH 40s [60.33 MM OD X 3.91 MM THK] X 5.5 TO 6.3 METER RL								58	340.260		
CHEMICAL TEST													
SR. NO.	HEAT NO.	S	C	Si	Mn	P	S	Ni	Cr	Mo	N	Ti	
22	11A178		0.035	1.000	2.000	0.045	0.030	8.000	18.000	--	--	--	
			MAX	MAX	MAX	MAX	MAX	13.000	20.000	--	--	--	
		H	0.026	0.560	1.120	0.029	0.006	8.250	18.310	--	--	--	
		P1	0.027	0.568	1.236	0.027	0.008	8.247	18.263	--	--	--	
	P2	0.028	0.596	1.254	0.027	0.008	8.274	18.260	--	--	--		
MECHANICAL TESTS													
SR. NO.	TENSILE STRENGTH Rm MPa	YIELD STRENGTH Rp 0.2% MPa	YIELD STRENGTH Rp 1.0% MPa	ELON. A% G.L.=5.65√A, G.W= 12.70 MM	HARDNESS TEST MAX	FLARING TEST	FLANGE TEST	RING EXPANSION TEST	FLATTENING TEST	REVERSE FLATTENING TEST	REVERSE BEND TEST	OTHER TEST	
REQ.	485 MIN	170 MIN	--	35 % (MIN)	--	--	--	--	--	--	--	--	
22	612.00	307.00	N.A	59	N.A	N.A	N.A	N.A	OK	N.A	N.A	N.A	
	--	--	--	--									
REMARKS:-													
MARKING ON PRODUCT :- MAXIM S.S. SEAMLESS PIPE, SPECN, GRADE, SIZE, HEAT NO, (O.A.No/Sr. No.)													
HEAT TREATMENT :- SOLUTION ANNEALED AT TEMP. ABOVE 1040° C AND QUENCHED IN WATER.													
HYDRO TEST PRESSURE :- 2000, psi(g), (WATER USED HAVING CHLORIDE CONTENT LESS THAN 10 ppm & HOLDING TIME 10 SEC. MIN)													
EDDY CURRENT TEST :- N.A													
[1] MECHANICAL TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[2] PRODUCT ANALYSIS CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[3] 100% HYDRO TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[4] 100 % PMI TEST CARRIED OUT BY MTCPL - FOUND SATISFACTORY.													
[5] 100% DIMENSION AND VISUAL CHECKED BY MTCPL - FOUND SATISFACTORY.													
NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W= GAUGE WIDTH, N.A = NOT APPLICABLE.													
INSPECTOR'S/SURVEYOR'S SIGN					P.O. ITEM :- COMPLETE					  MANAGER (Q.A.)			
WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER, ALL TEST RESULT ARE ACCEPTABLE.													

Office & Works

Unit-II, Survey No. 105, Nr. 66 KV Sub-Station, Chhatral-Pansar Road,
Ahmedabad-Mehsana Highway, Chhatral-382729, Ta. Kalol, Dist. Gandhinagar, Gujarat, INDIA.
T : +91 2764 233577, F : +91 2764 234477, E : export@maximtubes.com
www.maximtubes.com

34716/38157

ABNAHMEPRÜFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION

ISO 9001:2008 certification
EN ISO 14001:2004 certification



EN 10204-3.1

Cert. No.: 164039 / 2014.09.16
Blatt/Sheet/Page: 1 / 7

Besteller/Purchaser/Acheteur:

Rolled Alloys Inc. - US
125 W Stems Rd
US-48182 Temperance
United States

Empfänger/Consignee/Destinaire:

Rolled Alloys
9818 E. Hardy Road
US-77093 Houston
United States

SDMS n° 62434

Bestell-Nr./Purchaser order No./No. de commande:

0112301-HOU / 2014.05.12

Empfängerref.-Nr./Receiver reference-No./Référence destinaire:

-

Werksauftrags-Nr./Works order-No./No. de la commande de l'usine:

1646604 / 2014.05.12

Lieferschein-Nr./Delivery note-No./Avisd'expedition du client:

51164808 / 2014.08.28

Prüfgegenstand/Object of test/Object d'examen:

BÖHLER P511
bar, forged, solution annealed, quenched
IBO ECOMAX ISO 286/2 ITK12

Anforderungen/Requirements/Exigence:

ASTM A276-13a
ASTM A479/A479M-14
ASME BPVC 2013 Section II Part A SA-479/SA-479M
ASTM A193/A193M-12b Class 1C
NACE MR 0175 / ISO 15156-3:2009
UNS S20910, XM-19

Cust.Code: 0010992

Volume of delivery

Pos./Loc	Dimensions	Length	No. of Pieces	Weight kgs	Mat.-ID	Test No.	Heat No.
10/1	RD 139,7 MM 5,500 inch	3.000 - 6.000 MM	3	1448,0 3192,3 lbs	DXQB	1394895-1	K10006

Reduction ratio

Reduction ratio = 9,3:1

Quality heat treatment

	Temperature	Soak time	Cooling
Solution annealed	1065°C	1:24 h T	Water

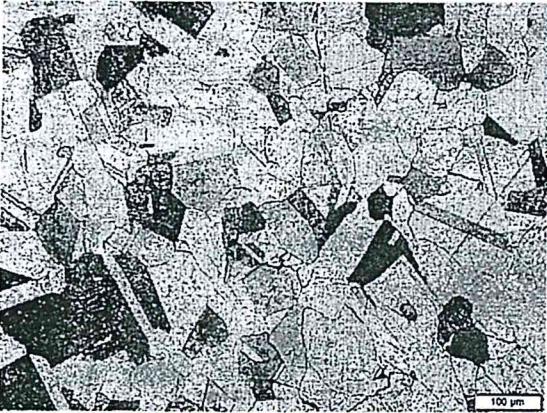
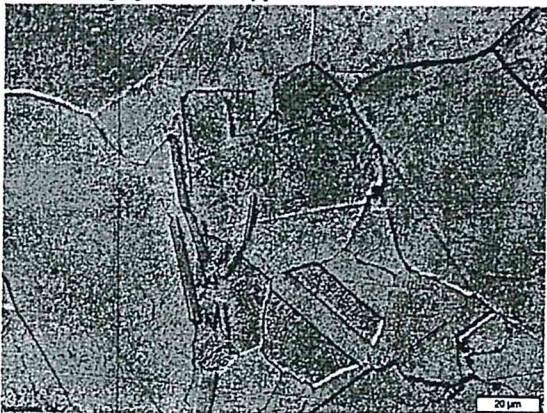
T ...holding time at nominal temperature after furnace has reached the tolerance limit.

TRACER # 043561745

14102145
SDMS
C. DREYER
Inspection

EN 10204-3.1

Cert. No.: 164039 / 2014.09.16
Blatt/Sheet/Page: 2 / 7

Chemical Composition (%)										
Chemical Composition Steelmaking Process: Airmelt										Heat No.
C	Si	Mn	P	S	Cr	Mo	Ni	V	Nb	K10006
0,015	0,36	5,02	0,024	<0,0003	20,75	2,08	13,00	0,14	0,14	
N										K10006
0,32										
Steelmaking Process = Airmelt (EAF+AOD)										
SDMS n° 62434										
<u>Ferrite content evaluation</u>										
The ferrite content was determined similar to ASTM E45-13 using the worst field method.										
			Rim		1/2 Radius				Center	
Ferrite content			0%		0%				0%	
<u>Grain size evaluation</u>										
The grain size was determined acc.to ASTM E112-13										
Structur			Grindingdirection			1/2 Radius				
Uniform			longitudinal			ASTM No.(4)				
<u>Micrographic examination</u>										
Austenitic microstructure										
The microstructure was examined at 50x, 100x and 500x magnification.										
The material is free from precipitations.										
<u>Photomicrographs</u>										
The microstructural photographs were examined at 100x and 500x using light microscopy.										
										
original photo: 100x					original photo: 500x					

TRACER # 013561745

Approved
Date 10/25/14

Rolling Alloys Quality Assurance

EN 10204-3.1

Cert. No.: 164039 / 2014.09.16
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Mechanical Properties								
Tensile test in delivery condition								
*Key H = hardest W = softest		S = Top M = Middle B = Bottom		Yield Strength		Ultimate Tensile Strength	Elongation	Reduction of Area
Test no.	Piece no.	Testing standard	Location	Temp. °F	YS0.2 KSI	UTS KSI	A4 %	RoA %
1394895-1	367S	ASTM A370-12a	L2	73	>=55 61.496	>=100 110.722	>=35 47	>=55 69
Impact test in delivery condition								
*Key H = hardest W = softest		S = Top M = Middle B = Bottom		Impact energy				
Test no.	Piece no.	Testing standard	Location	Temp. °F	Charpy-V ft-lbf			
1394895-1	367S	ASTM E23-12c	L2	73	Info 154 162 150			
1394895-1	367S	ASTM E23-12c	L2	-76	Info 127 119 129			
Hardness test in delivery condition								
Test no.	Piece no.	Testing standard	Location	HBW10/3000		HRC		
1394895-1	-	ASTM E10-12	Bars	<=293 201		<=35		
1394895-1	367S	ASTM E18-12	Tensile test			<21.0		

SDMS n° 62434 3A

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EN 10204-3.1

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Corrosion examination

Intergranular corrosion acc.to ASTM A262 Practice E: Satisfactory

SDMS n° 62434

Physical examination

Permeability test: $\mu r = 1,002-1,003$ (80000 A/m)

Nondestructive examination

Positive Material Identification: Satisfactory

100% Ultrasonic test acc.to ASTM A388/A388M-11.
The material fulfils the requirements.

100% Surface Inspection
A Visual test was performed.
The bars are without unacceptable surface defects.

Statements

The material is free of mercury, free of mercury compounds and / or radioactive contamination at time of shipment.
The material was produced without ozone depleting substances.
No weld repair has been performed on this material.
Country of origin and melt = AUSTRIA

The above are true and correct results of tests on samples of the material.
Results conform to the specification(s) applicable and are on record.

The recording of false, fictitious or fraudulent statements or entries on the document may be punished by Austrian law (Austrian Penal Code 223F).

Austria is listed as a qualified country in DFARS 225.872 because the United States and Austria have signed reciprocal defence procurement MoU.
Austrian material may be used in "Buy America" applications where the total value of Austrian material is less than 50% of the value of the component.
BOHLER EDELSTAHL is an eligible supply source according to DEFARS 252.225-7014.

Attachment

Furnace chart
UT Report

Operators qualification

Radioaktivitätskontrolle/Radioactivity inspection: Co-60<0,1Bq/g;

hiermit kleiner als Grenzwert in der anzuwendenden Spezifikation IAEA RS-G-1.7 für unbedenkliche Stoffe.
therefore smaller than upper limit required according to specification IAEA RS-G-1.7 for inoffensive material.

Wir bestätigen hiermit, dass die obengenannten Erzeugnisse den Bestellevorschriften entsprechen.
We hereby certify that the above mentioned products are consistent with the order prescriptions.
Nous certifions que les produits énumérés ci-dessus sont conformes aux prescriptions de la commande.

Zeichen des Lieferwerks:
Brand of Manufacturer:
Marques de l'usine:



Besichtigung und Nachmessung: Keine Beanstandung
Inspection and Checking of Dimensions: Satisfactory
Inspection of Control des dimensions: Satisfaisant

Zeichen des Prüfers:
Symbol of Inspector:
Symbole de l'inspecteur:



BOHLER Edelstahl GmbH & Co KG
Mariazellerstrasse 25
8605 Kapfenberg, AUSTRIA
www.bohler-edelstahl.com

Christopher.Schmid@bohler-edelstahl.at
AUSSTELLER/
ORIGINATOR/AUTEUR

DER ABNAHMEBEAUFTRAGTE/
INSPECTOR REPRESENTATIVE/
DU CONTROLEUR

ABNAHMEPRÜFZEUGNIS
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EN 10204-3.1

SDMS n° 62434

Cert. No.: 164039 / 2014.09.16
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UT	PRÜFBERICHT C REPORT C PROCE-VERBAL TYPE C	Besteller Furchser Client	ROLLED ALLOYS	Werks Auftrag Working Order Commande Interne	1646504 (FA 1394895/1/2)	Pos. Item Repare	1				
Nr./No	SK-08-262	Bestell-Nr. Order No. No. de commande	0112301-HDU	Prüfobjekt Test object Pièce contrôlée	Stabstahl / steel bars						
Seite Page	01 von of sur 01	Stückzahl Quantity Quantité	3	Kennzeichnung Identification	Schmelze, Werkstoff, Werks Auftrag Heat, Material, Working Order						
Abmessung Dimension	RD 139.7mm	Werkstoff Material Matériau	P511	Schmelze-Nr. Heat No. No. de coulée	K10006						
Oberflächenzust. Surface cond. Etat de surface	geschält / peeled	Gewicht Weight Poids	1455 kg	Fertigungsstufe Stage of production Etat d'avancement de fabrication	Lieferzustand / delivery condition						
Prüfbereich Inspection area Plage d'essai	Gesamte Stablänge / whole length			Wärmebehandlung Heat treatment Traitement thermique	Lösungsgelöst / solution annealed						
Prüfvorschrift Inspection Specification Spécification de contrôle	ASTM A388/A388M - 11			Prüfung Inspection Coverage Etendue du contrôle	Gesamter Umfang / whole circumference						
Beurteilungsstandard Evaluation standard Critères d'acceptation	3mm KSR / DSR			ZP-Arbeitsvorschrift NDT-procedure Procédure ENI	AV2/18/0015/74R01 ScanPlan-ASTM-A388-CT Rev00						
EOK (FP / WP) Nr. Transfer (FP / WP) No. No. de fiche suivie	---			Zeichnungs-Nr., Schmelze-Nr. oder Einsatz-Nr. Drawing No. or forging No. No. de plan, No. de forgeage ou No. de laminage	---						
Registriergrenze Recording level Seuil d'enregistrement	100% of reference amplitude			Schritt / Prüf-Nr. Step / Test no. No. d'opération	---						
Skizze Sketch Esquisse											
Prüfer-M-Nr. Equipment No. Appareil No.	EPOCH 600 120381007	Koppelmittel Coupler Produit de couplage	Kleister / paste	Justierung Adjustment Ajustage	AVG / DGS						
Teilbild Bloc d'alignage	Bauteil / Part	Referenzreflektor Reference reflector Réflecteur de référence	BT-RWE / Part-BWE	RT-Abstand Signal-to-noise distance Rapport signal au bruit	>6 dB						
Transferkorrektur (weitere Korz.) Transfer correction (further corr.) Correction de transfert (correction additionnelle)	---										
Entsch.-Pos. Position of incidence Direction d'ind.	Prüfobj. Probe Pièce	Frequenz Frequency Fréq. No	Einstrahlwinkel Angle of incidence Angle d'incidence	Schallweg Sound path Percours du son	Schallschw.- Sound att. Atténuation du son	Anzeige-tiefe Indication depth Profondeur de l'indication	Anzeige-länge Indication length Longueur de l'indication	KSR-Wert DSR value Réflecteur étiqué de référence	dB zu Referenz dB à la référence	Echoform Type of echo Type d'écho	RWE-Abfall Loss of BWE dB Appareil de l'écho de fond dB
A	B2S SN 67741	2	0°	139.7	<2	keine registrierpflichtigen Anzeigen no indications above alarm level				<6	
Prüfergebnis: Test result: Résultat:	<input checked="" type="checkbox"/> Entspricht Wohn Conforme		<input type="checkbox"/> Entspricht nicht der Vorschrift Not in line specification Pas conforme de la specification		Prüf- Place of inspection Lieu de contrôle	Kapfenberg, Abt. / Dep. EHB		Datum Date Date	21.08.2014		
Kunde Customer Client					Prüfer / Stufe Operator / Level Opérateur / Niveau de qualification	Holzer K. II		ISO 9712			
Qualschler / Sachverständiger Authorized inspector Agent de l'organisme de contrôle					Prüferverantwortlicher / Stufe Supervisor / Level Responsable de contrôle / Niveau de qualification	Westermayer F. II		ISO 9712			

SDMS n° 62434



Akkreditierte Konformitätsbewertungsstelle nach EN ISO/IEC 17024
Accredited Conformity assessment body to EN ISO/IEC 17024
Organisme de évaluation de la conformité à la EN ISO/IEC 17024
Identifikationsnummer: 909
ANERKANNTE UNABHÄNGIGE PRÜFSTELLE
gemäß Art. 13 Druckgeräterichtlinie 97/23/EG



CERTIFICATE ZERTIFIKAT CERTIFICAT

We hereby certify the competence

Hiermit zertifizieren wir die Kompetenz

Nous certifions la compétence

Herrn, Karl Holzer

geboren am 08.01.1971
date of birth
né (e) le

Registrier-Nr. 03/24480/2/00571
Registration N°
N° d'immatriculation

Prüfverfahren und Stufe
NDT method and level
Méthode contrôle et niveau

für/för/pour

Ultraschallprüfung UT Stufe 2 (zwei)

Industrie-/Produktsektoren**
Industrial-/Product sectors**
Secteurs industriels-/produits**

Herstellung

nach den Normen
based on the Standards
en selon des normes

ÖNORMEN: EN ISO 9712, M 3042, M 3041

Validity of the certification

Gültigkeit der Zertifizierung

Validité de la certification

23.04.2014 bis 22.04.2019

Österreichische Gesellschaft für Zerstörungsfreie Prüfung
Austrian Society for Nondestructive Testing

Association d'Autriche des Essais Non Destructifs

A 1015 Wien, 04.03.2014

für den Zentralen Programmausschuss der Zertifizierungsstelle
for the Steering Committee of the Certifying Body
Comité de Direction de l'organisme de certification

für die Zertifizierungsstelle
for the Certifying Body
pour l'organisme de certification

der Präsident
the president / le président
Dipl.-Ing. Dr. H. Eberhardt



der Prüfungsbeauftragte
the examiner / l'examinateur
Dipl.-Ing. (FH) Gerald Idinger (0238)

- *) Herstellung (enthält c, f, l, w, vsp)
- Diensleistungsprüfung bei Fertigung und Instandhaltung, eingeschlossen Herstellung (enthält c, f, w, l, vsp, u.a)
- Eisenbahn-Instandhaltung (enthält c, f, w, l, vsp, u.a)
- Luft- und Raumfahrt (enthält c, f, w, l, vsp, p, u.a)
- **) Produktsektoren gemäß ÖNORM EN ISO 9712

Karl Holzer
Unterschrift des Inhabers
Signature of holder / Signature du titulaire

Der Zertifikatsinhaber verpflichtet sich zur Einhaltung der Ethischen Regeln (RÖZ 760/Rev.04)
Jede missbräuchliche Verwendung dieses Zertifikates und Inkorrekturen/Hinweise darauf werden gesetzlich geahndet
Copyright ÖGfZP Austria (Nr. RÖZ 7570-Rev. 07 0113)

SDMS n° 62434

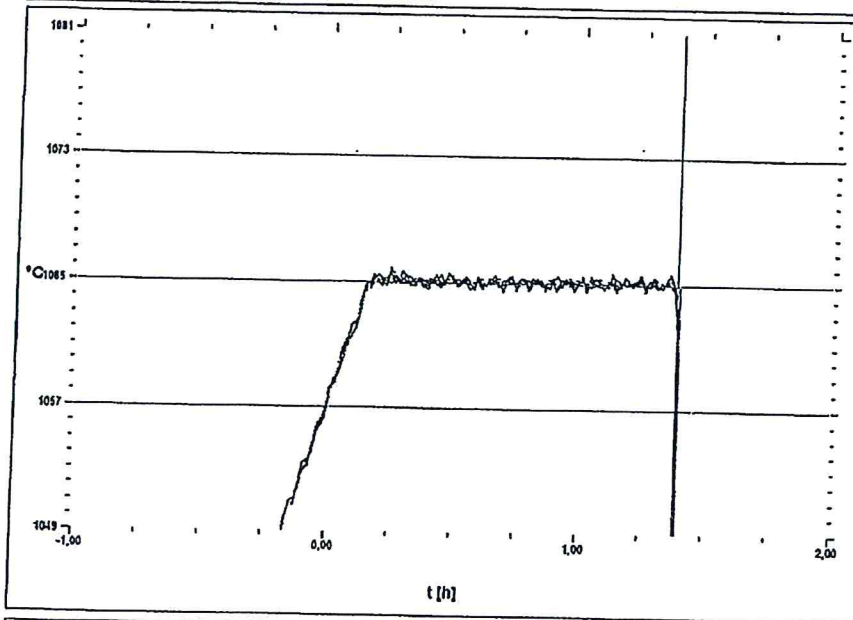
Abteilung/Department **EHW** **Wärmebehandlungsprotokoll**
Heat treatment report **BÖHLER**
EDELSTAHL

Kunde/customer: **USA ROLLED ALLOYS 9818**
WA/Pos/Los/works order:: **646604 / 1 / 1** FA/Los/Split/Internal order: **394895 / 1 / 2**
Marke/material: **P511** Charge/heat no.: **K10006 / 0**
Abmessungen/dimension: **0 x 147 [mm]** Einsatzgewicht/weight: **705 KG**
Einsatzmenge/quantity: **1 STK/PCS**

Arbeitsgang/process: **LOESUNGSGLUEHEN / SOLUTION ANNEALING**
Ofen/furnace no.: **46** Einsatznummer/lot no.: **3368464**
Einsatzzeitpunkt/start of process: **07.08.2014 13:09** Austrittszeitpunkt/end of process: **07.08.2014 17:40**

	Solldaten / nominal values	Istdaten / actual data
Ofenstarttemperatur/set temperature:	1065 °C	1065 °C
Ofenklasse/furnace class *:	3 und besser/and better	3
Haltezeit / Typ **/holding time/type:	1:00-2:00 h / T	1:24 h / T
Abkühlung/cooling:	Wasser / water	Wasser / water
Wasseranfangstemp. / water start temp.:		25,4°C
Wasserendtemp. / water end temp.:		26,2°C

*... Ofenqualifizierung lt./furnace qualification in accordance with: AMS 2750 aktuelle Rev./current revision
*... Ofenklasse/furnace class: 2 (+/-5°C) / 3 (+/-8°C) / 4 (+/-10°C) / 5 (+/-14°C)
**... M = Materialzeit/material time / T = Ofenzeit/furnace time



Die Richtigkeit der durchgeführten Wärmebehandlung wird bestätigt:
The correctness of the performed heat treatment is confirmed:
Datum/Date: **07.08.2014** Unterschrift/signature: **Schmitzberger Josef / EHW**



Certificat de Réception 3.1

SDMS n° 62880



Produit ER316LCF
 Diamètre 2.0mm
 Item No. TER316LCF-20
 Lot/Batch U2TG142297
 Ligne produits TIG
 Classification AWS A5.9M : ER316L
 EN ISO 14343-A : W 19 12 3 L
 ASME SFA 5.9 : ER316L

N°Cde Client. 95326
 Notre réf. 807102521
 Quantité 20.0 KG
 Client S.D.M.S

Route de Valence 761
 ST ROMANS 38160
 France

Analyse Chimique (%)

According to EN10204 3.1

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N
0.017	0.34	1.84	0.016	0.011	18.1	12.7	2.59	0.12	0.06

Caractéristiques Mécaniques

According to EN10204 3.1

Essai de traction

Essai de resilience

Cond.	Temp. °C	Rp0.2 MPa	Rm MPa	A4 %	A5 %	Z %	Temp. °C	C1a J	C1b J	C1c J	L1a mm	L1b mm	L1c mm
AW	20	398	571	38	36	61	-196	52	56	43	0.65	0.72	0.61

Ferrite

According to EN10204 3.1

FN WRC92

4

Remarques

SDMS
 CONTRÔLE

Le produit identifié ci-dessus a été fabriqué, testé et fourni en accord avec un programme d'assurance qualité certifié ISO 9001.

Compagnie
 Metrode Products Ltd
 Hanworth Lane
 KT16 9LL Chertsey, Surrey
 United Kingdom



Imprimé par
 Par Andrea Lopes
 Fonction Export Sales Co-ordinator
 Date 22/APR/2015

Cert. No.
 00118288
 ZEU_LCF, 1

95087

SDMS n° 62 900 42

FP SOUDAGE

Place des forges
90600 GRANDVILLARS - France
Tél : +33 (0)3 84 57 37 77
Fax : +33 (0)3 84 23 57 90

Selectarc[®]**CERTIFICAT DE RECEPTION NF EN 10204 TYPE 3.1***Inspection certificate / Abnahmeprüfzeugnis*

N° Déclaration BL448753 1
N° du Contrat <i>Contract nr / Vertragsnummer</i> 32157
12/03/2015
N° et Date BL <i>Nr and Date of delivery note / N° und datum des Lieferscheins</i> BL448753 29/04/2015

S.D.M.S.
RN 1532
LES CONDAMINES
BP 4
38160 SAINT ROMANS

CODE ARTICLE		DESIGNATION	LOT	QUANTITE
IN316LF12	MDEC	MIG 20/10MLF 1.2xBS300 15KG	217640-	285.000

ANALYSES (%)	
FICHE 316L	LOT/COULEE 217640-45344
	NF EN ISO 14343 19.12.3.L 316L)
	AWS A5.9 ER 316 L
	AIR 9117
	C 0.017
	Cr 18.11
	Ni 12.67
	Mo 2.59
	Mn 1.84
	Si 0.34
	P 0.016
	S 0.011
	Cu 0.12
	N 0.06
	Co 0.07
	FERRITE WrcFN: 3.3

SDMS
LES CONDAMINES
BP 4
38160 SAINT ROMANS

Nous certifions que les produits énumérés ci-dessus sont conformes aux exigences de la commande.

We certify hereby that above mentioned products are consistent with the order prescriptions.

Wir bestätigen hiermit dass die obengenannten erzeugnisse den bestellten ungevorschriften entsprechen.

LE MATERIEL LIVRE EST FABRIQUE DANS LE CADRE D'UN SYSTEME QUALITE CERTIFIE ISO 9001

RESPONSABLE QUALITE : Karine BARBIER Edité le 29/04/2015

Quality manager / Qualitätsbeauftragter der Lieferfirma

Ce certificat établi par informatique est valable sans signature

DOCDECLARATION DE CONFORMITE
NF L 00-015C

 N° Déclaration
 448753 / 005

S.D.M.S.
RN 1532
LES CONDAMINES
38160 SAINT ROMANS

NUMERO CONTRAT <i>Contract nr / Vertragsnummer</i>	NUMERO / DATE BON DE LIVRAISON <i>Nr and Date of delivery note / N° und datum des lieferscheins</i>
32157	448753 29/04/2015

CODE ARTICLE	DESIGNATION <i>Designation / Bezeichnung</i>	QUANTITE <i>Quantity / Stuckzahl</i>	LOT <i>Batch nr /</i>
IN316LF12MDEC	MIG 20/10MLF 1.2xBS300 15KG	285	217640-

Nous déclarons que la fourniture citée est conforme aux exigences du contrat et que, après vérifications et essais, elle répond en tout point, aux exigences spécifiées, aux normes et règlements applicables, sauf exceptions, réserves ou dérogations énumérées dans le présent certificat de conformité.

We hereby declare, barring exceptions, reservations, or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completion of testing and verification, they completely satisfy all specified requirements, and applicable standards and regulations.

Wir erklären, dass die vorliegende Lieferung in Übereinstimmung mit den Vertragsanforderung hergestellt wurde und dass sie, nach Durchführung aller Kontrollen und Prüfungen, in jeder Hinsicht den in den diesbezüglich gültigen Normen und Vorschriften festgelegten Anforderungen, bis auf die in dieser Übereinstimmungserklärung genannten Ausnahmen, Vorbehalte oder Abweichungen, entspricht.

RESPONSABLE QUALITE FOURNISSEUR : Karine BARBIER
Supplier quality manager / Qualitätsbeauftragter der Lieferfirma

Date 29/04/15





YEL +38 0185 4021 - FAX +33 3 302286
 CAP. SOC. 100 000.000 EUR INT. S.
 C.F. 02: 87302967
 VAT: IT00571320278 R.E.A. n. AD-50474

entièrement avec les systèmes de gestion certifiés
 par ISO selon ISO 9001, ISO/TS 16949 et ISO
 14001.

CERTIFICAT DE RECEPTION 3.1 (EN 10204:2004)
 (A03) NUMERO DE DOCUMENT 2015020960
 PAGE 1/2

(A06) CLIENT :
 (A07) N. DE LA COMMANDE DU CLIENT :
 (A08) USINE PRODUCTRICE :
 (A05) AUTEUR DU DOCUMENT :
 (A04) NUMERO DE LA COMMANDE DE L'USINE :
 (A03) LES PRODUITS CERTIFIES SONT CONFORMES A LA COMMANDE

COGNIE FRANCE S.A.
 CDA52262
 AOSTA, VIA PARAVERA 16 - ITALIA
 SERVICE QUALITE
 25192240 / 10
 (A04) SIGLE DU PRODUCTEUR : COGNE

086940

SPECIFICATION INTERNE :
 (B01) PRODUIT :
 (B03) FINITION SUPERFICIELLE :
 (B04) ETAT DE LIVRAISON :
 (B11) DIMENSIONS DU PRODUIT (MM):
 (B02) NUANCE :
 (B07) IDENTIFICATION N. DE COULEE :
 (B06) MARQUAGE DU PRODUIT :

STOCKBARREWZ
 15261 SRE Rectifié
 2G Ronds
 RS HYPERTREMPE
 40,000
 AISI 316/316L EN1.4401/4404
 572004
 1.4401/4404

REGLE TECHNIQUE :
 TOLERANCE :
 ISON9

(B12) LONGUEUR DU PRODUIT (MM):
 NUANCE INTERNE :
 (B07) IDENTIFICATION N. DE LOT:
 MARQUAGE PIÈCES :

03000 / 03100
 F316L IMCO
 720790
 079

AD2000-W2

NORMES DE REFERENCE: EN 10088-3 (05), EN 10272 (08), ASTM A276 (08), ASTM A479 (08), ASTM A193 (09) B8M CLASSE1D, ASME SA 276 (10), ASME SA479 (10), AMS 5633F, AMS 5648K, ISO15156-3/NACE MR0175 (09), NACE MR0103 (07), NOROK M05S01rev.3
 NORMES DE REFERENCE CONCERNANT ANALYSE CHIMIQUE ET PROPRIETES MECHANIQUES: ASTM A182 (10), ASME SA182 (10),
 LE PRODUIT EST CONFORME A LA SPECIFICATION ET A LA REGLE AD2000-MERKBLATT W0/W2.
 ELABORATION AU FOUR ELECTRIQUE + AOD + COULER CONTINUE
 LAMINE A CHAUD
 Taux de Corroyage 18,5

(C71) COMP. CHIMIQUE. - DE COULEE SELON ASTM E1019-A751. E1086-E415-A580

Lot de control - Poids : 020000569857 - 91,403 KG									
ELEMENT	C	Si	Mn	P	S	N	Cr	Mo	Cu
OBTENU	0,018	0,34	1,80	0,027	0,028	0,075	16,64	2,05	10,37
OBTENU	0,18								0,44

ESSAI DE DURETE AU ETAT DE FOURNITURE
 Lot de control - Poids : 020000569929 - 1,252 KG
 SPECIFICATION
 OBTENU 182 ENISO6506 ESSAI DE DURETE HB METHODE D'ESSAI : 10/3000

ESSAI DE RESILIENCE AU ETAT DE FOURNITURE
 Lot de control - Poids : 020000569929 - 1,252 KG
 SPECIFICATION
 (C40) EPROUVETTE
 (C03) TEMPERATURE D'ESSAI °C
 UNITE DE MESURE

287	J	288	286	285	287	287	290	290
-----	---	-----	-----	-----	-----	-----	-----	-----

(C02) ORIENTATION DE L'EPROUVETTE: L

SDMS n° 63099 1/2

SDMS
 CONTRÔLE



11100 AGUSTA - VIA PARAVERA,
 TEL. 031/48.2021 - FAX +39
 031/48.2022 - CAP. 3307296
 C.A. 02163369386
 VAT. 020871520076 R.E.A. N. AG-50474

chirurgie avec un système de gestion certifié
 par ISO selon ISO 9001, ISO/TS 16949 et ISO
 14001.

CERTIFICAT DE RECEPTION 3.1 (EN 10204:2004
 (A03) NUMERO DE DOCUMENT 20150209E
 PAGE 2/2

ESSAI DE TRACTION AU ETAT DE FOURNITURE
 Lot de control - Poids : 020000569929 -
 SPECIFICATION

EM-ISO6892-1 1.252 KG

(C02) ORIENTATION DE L'EPROUVETTE: L

UNITE DE MESURE	RM MPA	RP02 MPA	A5 %	Z %	RP1 MPA
OBTENU	615	283	5,0 D	75,7	339
	591	282	53,9	75,6	330
	611	281	54,0	75,0	335

086940

ESSAI DE TRACTION
 Lot de control - Poids : 020000569929 -
 SPECIFICATION

ASTMA370-EB-0.5"SPEC 1.252 KG

(C02) ORIENTATION DE L'EPROUVETTE: L

UNITE DE MESURE	RMB KSI	RP02B KSI	ZB %	AL2B %
OBTENU	87	41	76,6	4,0 D
	89	41	74,2	55,5
	88	43	76,3	59,1
				56,9

MATERIEL EN CONFORMITE AVEC LA NORME NORSOK M-630 MDS S01
 MATERIEL PRODUIT DANS UN SYSTEME D'ASSURANCE QUALITE EN ACCORD
 AVEC UNI EN ISO 9001:2008 ET ISO/TS 16949:2009 (POUR CETTE DERNIERE SEULEMENT POUR LES BARRRES EN ACIER LAMINEES 'ECROUTEES'
 RECTIFIEES' ET POUDES METALLIQUES ATOMISEES), CERTIFIE PAR ICQ.
 LES PRODUITS SONT CONFORMES AUX DIRECTIVES CE: 2011/65 -2000/53 2002/95 (ROHS) 2003/11 - 2005/618 ET PED 97/23/CE.
 LE MATERIEL EST EXEMPT DE TOUTE COMPOSES DU MERCURE ET/OU LA CONTAMINATION AU RADIUM AU MOMENT DE L'EXPEDITION ET A ETE PRODUIT SANS
 L'UTILISATION DE SUBSTANCES APPAUVRISANT LA COUCHE D'OZONE DE CLASSE I ET II.
 (Z02) POINCON DE L'EXPERT I.F.

ESSAI DE CORROSION SELON ASTM A262 METHODE E EN ISO 3651-2: CONFORME.
 INSPECTION DE LA SURFACE AVEC COURANTS DE FOUCAULT (CAPTEUR ROTATIF) ET VISUELLE SUIVANT EN 10277-1 CLASSE 4: CONFORME.
 CONTROLE DIMENSIONNEL SUIVANT LA NORME EN 10278: CONFORME.
 CONTROLE PAR ULTRASONS SELON LA NORME EN 10308 AND API6A
 CLASSE 3, EQUIVALENT A, SEPTEMBRE 1920 LS GROUPE 3 CLASSE C
 (CLASSE B POUR LES TAILLES > 75 MM) ET ASTM A388 FBH 5
 (UNIQUEMENT POUR LES TAILLES > 100 MM); SATISFAISANTE.
 AUCUNE REPARATION DE SOUDURE EXECUTEE.
 CONTROLE ANTIMELANGE AVEC SPECTROMETRE PORTABLE: CONFORME.
 MARQUAGE: MARQUAGE DU PRODUCTEUR, N. WERKSTOFF, N. COULEE, N. LOT.
 DOCUMENT PRODUIT EN ACCORD AVEC TUEV BAYERN (11.1972) NE FAISANT PAS L'OBJET D'UNE CONTRE-SIGNATURE (VOIRE DOCUMENT TUEV BAYERN
 17.01.80).

Rinuncia alla controfirma della competente organizzazione tecnica di
 controllo (lettera TUV Bayern del 17.01.80)

SDMS n° 63099 2/2

(Z01) DATE 14.04.2015

POLLASTRELLI ANDREA FC (ESPERT DE L'USINE) - CERTIFICAT CREE ELECTRONIQUEMENT



18110 VASSELAY-France

02 48 69 74 20

02 48 69 74 29

SDMS n° 63105

Système de Management de la Qualité
ISO 9001 certifié par LRQA
System of Quality Management
ISO 9001 LRQA Certified

Reg N° 9917426

ACCEPTANCE CERTIFICATE EN 10204/3.1
CERTIFICAT DE RECEPTION EN 10204/3.1

DISPATCH NOTE # 212820
AVIS EXPEDITION N°

Certificat N° : 212820001
OUR ORDER/NOTRE CDE: 236499

YOUR ORDER: 232859

CUSTOMER / CLIENT: STAPPERT FRANCE SAS

PRODUCT / PRODUIT

ITEM POSTE	QTY QTE	DESCRIPTION & SIZE DESIGNATION & DIMENSION	REQUIREMENTS SPECIFICATIONS	GRADE NUANCE
1	14	COUDES L.R A 90° 1" SCH 80S WP304/304L-S	ASME SA403.B16-9.B16-25.B16-28. ASTM A403-07 / ASME SEC.II PART A SA403-07	304/304L

BASE MATERIAL / MATIERE DE BASE

HEAT NUMBER COULEE	IDENTIFICATION IDENTIFICATION	MATERIAL SUPPLIER FOURNISSEUR	REQUIREMENTS SPECIFICATIONS	PQR QMOS-AQUAP
ZY33075	14A146	SHANGHAI MAX	COUDES 90° LR 1" Sch 80S 304 L-S	

CHEMICAL COMPOSITION / COMPOSITION CHIMIQUE

HEAT COULEE	%C	%Si	%Mn	%P	%S	%Cr	%Ni									
ZY33075	0.023	0.440	0.990	0.041	0.002	18.260	8.090									

MECHANICAL CHARACTERISTICS - TESTINGS / CARACTERISTIQUES MECANIKUES - ESSAIS

HEAT COULEE	YIELD STRENGTH LIMITE ELASTIQUE 0.2% Re Mpa		TENSILE STRENGTH RESISTANCE RUPTUR Rm Mpa		ELONGATION ALLONGEMENT A%		HARDNESS DURETE HRC		HEAT TREATMENT HYPERTREMPE 1040 °C		IC TEST CORROSION INTE. A262 PRACT.E		PMI TEST TEST SPECTRO		WELDING FACTOR FACTEUR SOUDAGE Z	
	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT
ZY33075	275		565		51		yes		YES	yes	Able to pass	yes				

ADD ON TESTING(S) / TEST(S) COMPLEMENTAIRE(S)

TESTINGS ESSAIS	REQUIREMENTS SPECIFICATIONS	ORDER REFERENCE REFERENCE COMMANDE	TEST REPORT # PV N°

REMARKS / REMARQUES

DIMENSIONAL & ASPECT / DIMENSION ET ASPECT: GOOD		STATE OF DELIVERY / ETAT DE LIVRAISON: PICKLED AND PASSIVATED	
BRAND'S MANUFACTOR SIGLE FABRICANT: 		<i>We Certify that delivered products comply requirements's customer.Nous certifions les produits conformes aux spécifications de la commande et de A.M du 24/03/78. Rm <= 760 MPA. A% (Lo=5.65 √So) >16.Rm (A-2) >= 10500.</i>	
Manufacturing according to PED 97/23/EC Annex 1 - 4.3 Fabrication conforme PED 97/23/CE Annexe 1 - 4.3		<i>Chemical composition and mechanical characteristics are according to the original's Certificate. This certificate, made from data processing treatment, is applicabled without signing. L'analyse chimique et les caractéristiques mécaniques sont conformes au certificat original. Ce certificat réalisé par traitement informatique est applicable sans signature.</i>	
		DATE 23/06/2015	FACTORY INSPECTOR EXPERT USINE : P.DESBOIS

ACCEPTANCE CERTIFICATE EN 10204/3.1
CERTIFICAT DE RECEPTION EN 10204/3.1

DISPATCH NOTE # 212820 **Certificat N°:** 212820002
AVIS EXPEDITION N° 212820 **OUR ORDER/NOTRE CDE:** 236499
YOUR ORDER: 232859
CUSTOMER / CLIENT: STAPPERT FRANCE SAS

PRODUCT / PRODUIT

ITEM POSTE	QTY QTE	DESCRIPTION & SIZE DESIGNATION & DIMENSION	REQUIREMENTS SPECIFICATIONS	GRADE NUANCE
2	6	TES 1" 80S WP304L-S	ASME SA 403/B16.9/B16.25 ASTM A403-07 / ASME SEC.II PART A SA403-07	304L

BASE MATERIAL / MATIERE DE BASE

HEAT NUMBER COULEE	IDENTIFICATION IDENTIFICATION	MATERIAL SUPPLIER FOURNISSEUR	REQUIREMENTS SPECIFICATIONS	PQR QMOS-AQUAP
A48002	13B045	ZHEJIANG INDIA	TES EGAUX 1" Sch 80S WP304/304 L-S	

CHEMICAL COMPOSITION / COMPOSITION CHIMIQUE

HEAT COULEE	%C	%Si	%Mn	%P	%S	%Cr	%Ni									
A48002	0.019	0.520	1.250	0.024	0.001	18.350	8.360									


MECHANICAL CHARACTERISTICS - TESTINGS / CARACTERISTIQUES MECANQUES - ESSAIS

HEAT COULEE	YIELD STRENGTH LIMITE ELASTIQUE		TENSILE STRENGTH RESISTANCE RUPTUR		ELONGATION ALLONGEMENT		HARDNESS DURETE		HEAT TREATMENT HYPERTREMPE		IC TEST CORROSION INTE.		PMI TEST TEST SPECTRO		WELDING FACTOR FACTEUR SOUDAGE	
	0.2% Re Mpa		Rm Mpa		A%		HRC		1040 °C		A262 PRACT.E			Z		
	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT	BASE	PRODUCT
A48002	265		590		50		yes		YES		yes	Able to pass	yes			

ADD ON TESTING(S) / TEST(S) COMPLEMENTAIRE(S)

TESTINGS ESSAIS	REQUIREMENTS SPECIFICATIONS	ORDER REFERENCE REFERENCE COMMANDE	TEST REPORT # PV N°

REMARKS / REMARQUES

DIMENSIONAL & ASPECT / DIMENSION ET ASPECT: GOOD		STATE OF DELIVERY / ETAT DE LIVRAISON: PICKLED AND PASSIVATED	
BRAND'S MANUFACTOR SIGLE FABRICANT: 		We Certify that delivered products comply requirements's customer. Nous certifions les produits conformes aux spécifications de la commande et de A.M du 24/03/78. Rm <= 760 MPA. A% (Lo=5.65 \So) >16.Rm (A-2) >= 10500. Chemical composition and mechanical characteristics are according to the original's Certificate. This certificate, made from data processing traitement, is applicable without signing. L'analyse chimique et les caractéristiques mécaniques sont conformes au certificat original. Ce certificat réalisé par traitement informatique est applicable sans signature.	
Manufacturing according to PED 97/23/EC Annex 1 - 4.3 Fabrication conforme PED 97/23/CE Annexe 1 - 4.3		FACTORY INSPECTOR EXPERT USINE : P.DESBOIS DATE 23/06/2015	


 SDMS
 CERTIFICATE