

JLAB – CEA n°17 – test report

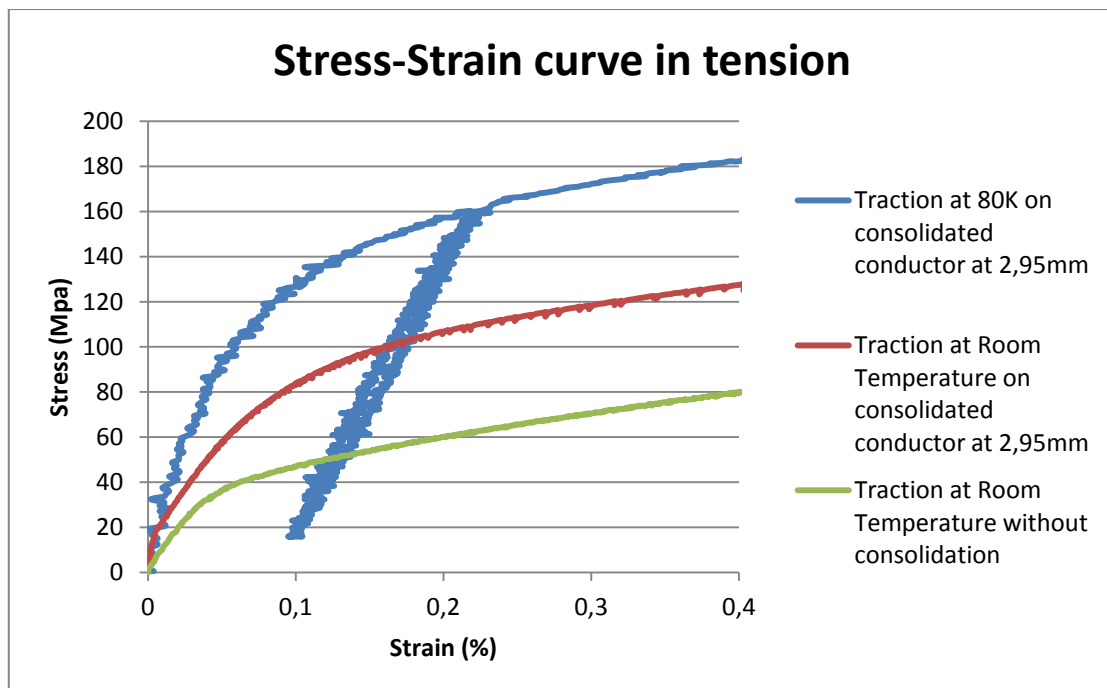
Objectives

- Determination of mechanical properties of a stack of consolidated conductor at 2,95mm in compression in azimuthal direction at 80K.
- Determination of mechanical properties of bare conductor consolidated at 2,95mm in tension at 80K.

Properties in traction

Consolidation	Temperature (K)	Young's Modulus (GPa)	Yield Strength* (MPa)
2,95mm	80 K	125	170
2,95mm	293 K	100	120
NO	293 K	100	70

*Yield Strength is calculated at 0,2% offset.



Properties in azimuthal compression

Consolidation	Temperature (K)	Young's Modulus (GPa)	Yield Strength* (MPa)
2,95mm	80 K	29	120
2,95mm	293 K	20	100
NO	293 K	12	55

*Yield Strength is calculated at 0,2% offset.

