High Performance Solutions for LT Superconducting Wire

H.C. Starck offers superior quality tantalum and niobium rod and sheet for high performance superconducting wire.

Applications

Nb₃Sn superconducting wire for high magnetic field applications: NMR, mass spectroscopy (FTMS), particle accelerators, nuclear fusion research equipment.

**Tantalum & Niobium Rod**

- Sizes Available:
  - Diameters: 10 – 100 mm
  - Max. Length: 2.5 – 7.5 m
- Microstructural control
- In compliance with ASTM B392 (Nb) and B365 (Ta)
- Consistent chemistry and mechanical properties

**Tantalum & Niobium Sheet**

- Sizes Available:
  - Sheet: 0.25 – 2.5 mm thick, up to 1m wide
  - Other dimensions available upon request
- Excellent surface quality
- In compliance with ASTM B393 (Nb) and B708 (Ta)
- Consistent chemistry
- Mechanical properties tuned to customer needs
Billet Extrusion

> Press Force
> 5500 tons

> Extrusion Temperature
> Wide range
> Controlled atmosphere

> Input Billet Diameter
> 152 – 432 mm (6 – 17 inch) diameters

H.C. Starck offers billet extrusion services for superconducting wire. The 5500 mt press is uniquely equipped with state of art controls for accurate dimensional control and optimum reductions. The high tonnage results in improved superconducting wire yields and superior wire properties.

H.C. Starck operates globally in accordance with stringent purchasing guidelines and processes only raw materials acquired from conflict-free sources. H.C. Starck’s has been certified by the EICC as a “Conflict-Free Smelter” of tantalum for our sustainable procurement process.