

Rhenium

Special properties - Excellent corrosion properties against non-oxidizing acids, superconductor below 1.7 K, good formability, very good weldability.

Application - Mass spectrometer, aircraft industry, electrical industry, petrochemical industry.

Chemical Composition in %

Re	Fe	Si	Mo	Ni	Cu	Al
≥99.95	≤0.002	≤0.001	≤0.001	≤0.001	≤0.0005	≤0.0007

Standards

ASTM B760	Rhenium sheets, plates
ASTM B696	Rhenium wire, round bars

Mechanical Properties 20 °C

Hardness, HB	140-240
Tensile strength Rm, N/mm²	≥1000
E-Modul, GPa	460
Elongation A5, %	20

Physical Properties 20 °C

Density, g/cm³	21.02
Specific heat capacity, J/g K	0.14
Thermal conductivity, W/cm K	48
Melting point, °C	3186

Our products

Sheets	Thickness: 0.1 - 10mm; max. width: 300mm
Round bars	Ø2 - 150mm; max. length: 1000mm
Wires	Ø 0.1 - 6.0mm