

DATASHEET

MATERIAL

AISI 304

TECHNICAL DETAILS

Density	Kg/m ³	8,000
Melting Point	°C	1450
Thermal Expansion	K	17.2x10 ⁻⁶
Modulus of Elasticity	GPa	193
Thermal Conductivity	W/m.K	16.2
Electrical Resistivity	Ω.m	0.072x10 ⁻⁶
Compression Strength	MPa	210
Proof Stress	Min MPa	210
Tensile Strength	MPa	520 to 720
Elongation	Min %	45

Chemical Composition

C	0.07
Cr	17.50 - 19.50
Mn	2.00
Si	1.00
P	0.045
S	0.015 ^{b)}
Ni	8.00 - 10.50
Fe	Balance
N	0.10