

Technical datasheet

Nickel 270 / W-Nr. 2.4050

An extremely high purity nickel grade that can be produced through powder metallurgy or through electrolytic refining.

Available products

Product form Sheet/plate Bar Wire	Please contact us with details of your requirements
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Chemical composition (%)

Ni	Co	Fe	Mn	S	Ti	Mg	Si	C
99.9 min	0.01 max	0.05 max	0.003 max	0.003 max	0.005 max	0.005 max	0.005 max	0.02 max

Major specifications

UNS N02270

Physical properties

Density	8.91 g/cm ³
Melting range	1454°C

Mechanical properties – typical room temperature properties

Yield strength	110 MPa
Tensile strength	345 MPa
Elongation	50 %

Key attributes

Owing to its high purity and the unique manufacturing process Nickel 270 has a “clean” microstructure and is essentially free from non-metallic inclusions. It has a low hardness and high ductility.

Applications

Electrical and electronic components
Electrical resistance thermometers
Electrolytic cell anodes