

Technical datasheet

Waspaloy / W-Nr. 2.4654

A nickel-based age hardenable alloy with excellent high temperature strength and good oxidation resistance.

Available products

Product form
Sheet/plate

Size range from
0.4 mm thickness

Size range to
12.0 mm thickness

Chemical composition (%)

Ni	Cr	Co	Mo	Ti	Al	Fe	Mn	C
Balance	18.0-21.0	12.0-15.0	3.5-5.0	2.75-3.25	1.20-1.60	2.0 max	1.0 max	0.02-1.0

Major specifications

ASTM B637
AMS 5544, 5828, 5708

UNS N07001

Physical properties

Density 8.19 g/cm³
Melting range 1330-1360°C

Mechanical properties – typical room temperature properties

Yield strength 784 MPa
Tensile strength 1175 MPa
Elongation 32 %

Key attributes

An age hardenable alloy with excellent high temperature strength and good high temperature corrosion resistance. The alloys strength and stability are higher than that which can be achieved with alloy 718. It finds application in gas turbines for critical rotating parts at service temperatures up to 650°C and for less demanding applications can be used at temperatures up to 870°C. The alloys oxidation resistance can withstand repeated thermal cycling.

Applications

Gas turbine engine components:
-Compressor and rotor discs
-Shafts
-Spacers
-Casings
-Rings and seals
-High strength fasteners

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