

Technical datasheet

Alloy 230 / W-Nr. 2.4733

A nickel-chromium-tungsten-molybdenum alloy which combines outstanding high temperature strength and long-term resistance to oxidising and nitriding environments up to 1150°C with good thermal stability and excellent formability.

Available products

Product form
Sheet/plate

Size range from
2.0 mm thickness

Size range to
12.7 mm thickness

Chemical composition (%)

Ni	Cr	W	Mo	Co	Al	Mn	Ti	C
Balance	20.0-24.0	13.0-15.0	1.0-3.0	5.0 max	0.2-0.5	0.3-1.0	0.1 max	0.05-0.15

Major specifications

ASTM B435
AMS 5878

UNS N06230

Physical properties

Density 8.97 g/cm³
Melting range 1300-1370°C

Mechanical properties – typical room temperature properties

Yield strength 417 MPa
Tensile strength 837 MPa
Elongation 47 %

Key attributes

Alloy 230 has excellent creep rupture strength and is particularly effective for long term service at operating temperatures above 650°C. It has excellent resistance to both air and combustion gas oxidising environments, outstanding nitridation resistance and good resistance to carburisation. It also has excellent long-term thermal stability and resistance to grain coarsening.

Owing to its good ductility Alloy 230 is readily fabricated and formed even by cold working making it suitable for a wide range of applications in the aerospace, power generation and thermal processing sectors. Please contact us for further details on forming, fabrication and welding consumables.

Applications

Combustion cans
Transition ducts
Gas turbine components
Furnace equipment (especially nitriding furnace internals)
Heat treating baskets
Furnace retorts and muffles

Do you require further information or a quotation?

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