

**Alloy 230 Super Alloy**

**Trade name  
Haynes 230**

**UNS  
N06230**

**DIN  
W2.4733**

**EN  
NiCr22W14Mo**

**Chemical Composition %**

Cr	Mo	Ni	Fe	Co	C	Mn	Si	P	S	Cu	B
20-24	1-3	47-65	3max	5max	0.05-0.15	0.3-1	0.25-0.75	0.03max	0.015max	0.5max	0.015max

**Recommended Welding Consumables**

Wire ER NiCrWMo-1 / ER 3556  
Rod E NiCrWMo-1/E 3556

La	Ti	Zr	Al
0.005-0.05	0.1max	0.2max	0.2-0.5

Form	Smls Pipe/Tub	Weded Pipe	Welded Tube	Fittings	Plate	Bar	Forgings
Standard	ASTM B622	ASTM B 619	ASTM B 626	ASTM B 366	ASTM B333	ASTM B335	ASTM B564

**Properties**

Elevated temperature oxidation resistance and long term stability

**Applications**

Aerospace gas turbine components  
Industrial heating

METALHEART

**Physical Properties**

Density: 0.327 lbs/in<sup>3</sup>, 9.05 g/cm<sup>3</sup>

Specific Heat: BTU/lb/° F (J/kg•K):

At 70 ° F (21 °C): .0095 (397)

Mean Coefficient of Thermal Expansion: in/in/° F (mm/ml°C):

70 - 212 ° F (20 - 100 °C): 7.0 x 10<sup>-5</sup> (12.7)

Thermal Conductivity: BTU-in/h-ft-° F (W/m-° K):

70 ° F (21 °C): 62 (8.9)

Modulus of Elasticity: ksi (MPa)

30.6 x 10<sup>3</sup> (21 Ox 10<sup>3</sup>) in tension

Melting Point: 2375 - 2500 ° F (1300 - 1374 °C)

Properties annealed

Ultimate Tensile Strength: 110 KSI min (760 MPa min)

Yield Strength (0.2% offset): 45 KSI min (31 O MPa min)

Elongation: 40% min

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