

Specialty Metals – Strip Products

Haynes® 230® Alloy

UNS N06230 W. Nr 2.4733

Haynes® 230® alloy is a nickel-chromium-tungsten-molybdenum alloy which combines excellent high temperature strength and oxidation resistance with superior long term stability and good fabricability. It has lower thermal expansion characteristics than most high temperature alloys and resists grain coarsening with prolonged high temperature exposure.

Industries served: aerospace, industrial heating, power generation, chemical processing.

Applications include: catalyst grid supports, gas turbine components, high temperature bellows, furnace components.

Nominal Composition														
	С	Mn	Si	Р	S	Cr	Со	Мо	W	Fe	Al	La	Ni	
min	0.05	0.30	0.25	-	-	20.00	-	1.00	13.00	-	0.20	0.01		
max	0.15	1.00	0.75	0.030	0.015	24.00	5.00	3.00	15.00	3.00	0.50	0.05	BAL	
Physical Properties														
					At 70°F					At 20°C				
Density					0.327 lb/in ³					9.05 g/cm ³				
Modulus of Elasticity (E)					30.6 x 10 ³ ksi					211 GPa				
Coefficient of Expansion					7.4 microinches/in°F (70-1000°F)					13.2 μm/m-°C (20-538°C)				
Electrical Resistivity					49.2 μ ohm.in					1.25 μ ohm.cm				
Thermal Conductivity					62 Btu-in./ft. ² hr°F					8.9 W/m-K				
Applicable Specifications														
Strip					ASTM B435, AMS 5878									
Typical Mechanical Properties – Spring Applications														
Condition			Heat Treatment			Tensile Strength			Suggested Operating Conditions					
Annealed			2210°F (1210°C)			115 ksi (793 MPa) min		-300°F to 2100°F (-184°C to 1149°C)						
Haynes® a	Haynes® and Haynes 230® are registered trademarks of Haynes International, Inc.													
					Elgiloy	y Specialty		Strip						
Phone: 1.888.843.2350					Products 1565 Fleetwood Dr.					WWW.ELGILOY.COM				
				-	Elgin, IL 60123 USA									
					-	, 12 00								

LIMITATION OF LIABILITY AND DISCLAIMER OF WARRANTY:

The content in these data sheets is provided primarily by third-party melting mills and is provided for reference only. It is not intended for engineering or design.

Applications may be discussed, however, Elgiloy Specialty Metals does not recommend or endorse any material for any particular end use or application.

The data included in this data sheet are typical values and may vary.

Elgiloy Specialty Metals makes no representations or warranties, express or implied, as to the accuracy, completeness, condition, suitability, performance, fitness for a particular purpose, or merchantability of any information contained in any data sheet.

In no event will Elgiloy Specialty Metals be liable for any damages whatsoever arising from the use of the information included in the data sheets.