

Specialty Metals – Strip Products

Haynes® 263 Alloy

UNS N07263 W. Nr 2.4650

Haynes® 263 alloy is an age-hardenable Ni-Co-Cr-Mo alloy designed to combine very good aged strength properties with excellent fabrication characteristics in the annealed condition. While its strength at high temperature is not quite as high as Waspaloy or R-41, it is far easier to form or weld than these alloys. Alloy 263 exhibits excellent intermediate temperature tensile ductility, and is not normally subject to strain age cracking problems common for gamma prime strengthened alloys.

Applications include: aircraft and land based turbine components.

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Nominal Composition														
	С	Mn	Si	P	S	Cr	Со	Мо	Ti	Al	Fe	Cu	Ni	
min	0.04	-	-	-	-	19.00	19.00	5.60	1.90	0.30	-	-	-	
max	0.08	0.60	0.40	0.015	0.007	21.00	21.00	6.10	2.40	0.60	0.70	0.20	Bal	
					Ph	ysical Pro	perties							
					At 70°F					At 20°C				
Density					0.302 lb/in ³					8.36 g/cm ³				
Modulus of Elasticity (E)					32.1 x 10³ ksi					221 GPa				
Coefficient of Expansion					7.6 microinches/in°F (70-1000°F)					13.6 μm/m-°C (20-538°C)				
Electrical Resistivity					45.3 μ ohm.in					115 μ ohm.cm				
Thermal Conductivity					81 Btu-in./ft. ² hr°F					11.7 W/m-K				
					Appli	cable Spe	ecification	าร						
Strip					AMS 5872									
			1	Typical M	echanica	l Properti	ies – Sprii	ng Appli	ications					
Condition			Heat Treatment			Tensile Strength			Suggested Operating Conditions					
Annealed			1900 - 2150°F (1038 - 1177°C)			77°C)	128 ksi (882 MPa) typ			-300°F to 1650°F (-184°C to 900°C)				
After Precipitation Heat Treat			1475°F (802°C), 8h, AC			С	164 ksi (1130 MPa) typ			-300°F to 1650°F (-184°C to 900°C)				
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Pl	none: 1.8	88.843.2	2350		Elgiloy Specialty Metals - Strip Products 1565 Fleetwood Dr.					WWW.ELGILOY.COM				

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