

ELGILOY Specialty Metals – Strip Products

Haynes® Alloy 214

UNS N07214 W.Nr 2.4646

Haynes® Alloy 214 is a nickel-chromium-aluminum-iron alloy with excellent high temperature corrosion and oxidation resistance at and above 955°C (1750°F). H214 is best suited for high temperature, low stress environments. Haynes® Alloy 214 is sold in the solution heat treated condition. At temperatures above 1750°F, an Al₂O₃ type oxide scale develops, providing excellent resistance to carburization, nitriding and corrosion in chlorine-bearing oxidizing environments. Applications include: honeycomb seals, flame hoods, burners, mesh belts, catalytic converters, Chlorine contaminated incinerator systems, and other static oxidation - limited parts

Industr Turbine		lied incl	ude: Aeı	rospace,	Automot	ive, Indι	ıstrial H	eating, N	∕ledical '	Waste D	isposal, a	and Land	d-Based (Gas	
Turbin						Nomir	nal Com	positio	n						
	С	Mn	Si	S	Cr	Со	Мо	W	Ti	Al	В	Fe	Υ	Ni	
min					15.00					4.00		2.00	0.002	Remainde	
max	0.15	1.00	0.50	0.015	17.00	2.00	1.00	1.00	0.50	5.00	0.015	6.00	0.004		
						Phys	ical Pro	perties							
					At 70°F					At 20°C					
Density					0.293 lb/in ³					8.1 g/cm³					
Modulus of Elasticity (E)					31.5 x 10 ³ ksi					218 GPa					
Modulus of Rigidity (G)					12 x 10³ ksi					84 GPa					
Coefficient of Expansion					7.4 microinches/in°F (70-1000°F)					13 μm/m-°C (20-538°C)					
Electrical Resistivity					55 μ ohm.in					140 μ ohm.cm					
Thermal Conductivity					83 Btu-in./ft.²hr°F					12 W/m-K					
						Applica	ble Spe	cificatio	ons						
St	rip and Fo	oil		В	50A913, B50TF219, PS-6073, MTS 1379-1, MSRR7238, PWA 1130, DMD 0495										
					Тур	oical Me	echanic	al Prop	erties						
Condition He			Heat Tre	eatment	Tensile Strength			Suggested Operating Conditions							
Annealed			Per specifications			115-160 ksi (790-1100 MPa)			-330°F to 2400°F (-200°C to 1315°C)						
Haynes® i	is a register	ed tradema	ark of Hayn	es Internatio	nal, Inc.										
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