

Specialty Metals – Strip Products

L-605 / Haynes 25®

UNS R30605 W.Nr 2.4964 / 2.4967

Haynes® 25/L605 is a nonmagnetic, Cobalt-Nickel-Chromium-Tungsten alloy that combines excellent high temperature strength with good resistance to oxidization and carburization in environments up to 980°C (1795°F) for long exposures. It also has excellent resistance to sulphidation. Haynes® 25/L605 responds very well to cold working.

Applications include: Combustor liners, furnace liners, gas turbine rotors, nozzle diaphragm valves, springs, heart valves Industries supplied include: Aerospace, Land-Based Turbines, Power Generation, Electronics, and Medical.

					Nom	inal Com _l	nosition						
	С	Mn	Si	Р	S	Cr	Ni	w	Fe	Co			
!			31	•	J				16	CO			
min	0.05	1.00				19.00	9.00	14.00					
max	0.15	2.00	0.40	0.040	0.030	21.00	11.00	16.00	3.00	Balance			
					Phy	sical Prop	erties						
					At 70°F					At 20°C			
Density					0.33 lb/in ³					9.1 g/cm ³			
Modulus of Elasticity (E)					32.6 x 10³ ksi					225 GPa			
Modulus of Rigidity (G)					14.2 x 10³ ksi					98 GPa			
Coefficient of Expansion					6.8 microinches/in°F(70-600°F)					12 μm/m-°C (20-538°C)			
Electrical Resistivity					34.9 μ ohm.in					89 μ ohm.cm			
Thermal Conductivity					65 Btu-in./ft.²hr°F					9.4 W/m-K			
					Applica	able Spec	ifications						
S	trip and Fo	oil			AMS 5537, Rolls Royce MSRR 7053, NACE MR0175/ISO 15156								
					Typical N	<mark>lechanica</mark>	l Properti	ies					
Condition			Heat Treatment			Tensile Strength		Suggested Operating Conditions		3			
Annealed							130 ksi (896 MPa) Min.						
Haynes® is	a registered	trademark o	f Haynes Inte	ernational, Inc	·.								
					Elgiloy S	pecialty M	etals - Stip	Products					
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