



# Specialty Metals – Strip Products

## L-605 / Haynes 25<sup>®</sup>

UNS R30605  
W.Nr 2.4964 / 2.4967

Haynes<sup>®</sup> 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<sup>®</sup> 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.

### Nominal Composition

	C	Mn	Si	P	S	Cr	Ni	W	Fe	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			

### Physical Properties

	At 70°F	At 20°C
<b>Density</b>	0.33 lb/in <sup>3</sup>	9.1 g/cm <sup>3</sup>
<b>Modulus of Elasticity (E)</b>	32.6 x 10 <sup>3</sup> ksi	225 GPa
<b>Modulus of Rigidity (G)</b>	14.2 x 10 <sup>3</sup> ksi	98 GPa
<b>Coefficient of Expansion</b>	6.8 microinches/in.-°F (70-600°F)	12 μm/m-°C (20-538°C)
<b>Electrical Resistivity</b>	34.9 μ ohm.in	89 μ ohm.cm
<b>Thermal Conductivity</b>	65 Btu-in./ft. <sup>2</sup> hr.-°F	9.4 W/m-K

### Applicable Specifications

Strip and Foil	AMS 5537, Rolls Royce MSRR 7053, NACE MR0175/ISO 15156
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### Typical Mechanical Properties

Condition	Heat Treatment	Tensile Strength	Suggested Operating Conditions
Annealed		130 ksi (896 MPa) Min.	

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**For further information Contact:**

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