



# HAYNES™ 25/L605



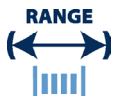
## Key Features

- Good resistance to oxidising environments at high temperatures for long exposures
- Excellent resistance to sulphidation
- \*\*High temperature static applications

## IMPORTANT

We will manufacture to your required mechanical properties.

## key advantages to you, *our customer*



**RANGE**  
0.025mm to 21mm  
(.001" to .827")



Order 3m to 3t  
(10 ft to 6000 Lbs)



Delivery:  
within 3 weeks



Wire to your spec



E.M.S available



Technical support

## HAYNES™ 25/L605 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

## Packaging

- Coils
- Spools
- Bars or lengths





Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 5796 AMS 5759 ASTM F90 BS HR 40 ISO 15156-3 (NACE MR 0175)  <b>Designations</b>  W.Nr. 2.4964 UNS R30605 AWS 060	Good resistance to oxidising environments at high temperatures for long exposures Excellent resistance to sulphidation **High temperature static applications	Parts for gas turbine engines and bearings
C	0.05	0.15			
Mn	1.00	2.00			
Si	-	0.40			
P	-	0.040			
S	-	0.030			
Cr	19.00	21.00			
Ni	9.00	11.00			
W	14.00	16.00			
Fe	-	3.00			
Co	BAL				

<b>Density</b>	9.13 g/cm <sup>3</sup>	0.330 lb/in <sup>3</sup>
<b>Melting Point</b>	1410°C	2570 °F
<b>Coefficient of Expansion</b>	12.3 µm/m °C (20 – 100°C)	6.8 x 10 <sup>-6</sup> in/in °F (70 – 212°F)
<b>Modulus of Rigidity</b>	98 kN/mm <sup>2</sup>	14214 ksi
<b>Modulus of Elasticity</b>	225 kN/mm <sup>2</sup>	32634 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed or Spring Temper	Stress Relieve	400 – 450	750 – 840	2	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature depending on load** and environment	
	N/mm <sup>2</sup>	ksi	°C	°F
Annealed	900 – 1500	131 – 218	-200 to +900	-330 to +1650
Spring Temper	1400 – 1800	203 – 261	-200 to +900	-330 to +1650

The above tensile strength ranges are typical. If you require different please ask.

\*\*Static applications = still/fixed/motionless/rigid