

## key advantages to you, our customer



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 282 available in:-

We will manufacture to your required mechanical properties.

Round wire

**IMPORTANT** 

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

## **Packaging**

- Coils
- Spools
- Bars or lengths

\*Trade name of Haynes International.

## Technical Datasheet AWS 062 Rev.1





Chemical Composition			Specifications	Key Features	Typical Applications		
Element	Min %	Max %	-	New alloy developed for high temperature	Exhaust nozzle components		
Al	1.38	1.65		creep strength in the temperature range of 650 – 930 °C (1200 – 1700 °F), supposedly surpassing that of Waspaloy, and approaching that of Rene 41	in augmented aircraft gas turbines, hot gas paths in		
В	0.003	0.010			land based gas turbines		
С	0.04	0.08	Designations		A potential choice for high temperature development parts		
Nb/Cb	-	0.20	UNS N07208				
Со	9.00	11.00	AWS 062				
Cr	18.50	20.50					
Cu	-	0.10					
Fe	-	1.50					
Mn	-	0.30					
Мо	8.00	9.00					
Ni	Ni BAL						
Р	-	0.015					
S	-	0.015					
Si	-	0.15					
Та	-	0.10					
Ti	1.90	2.30					
W	-	0.50					

Density	8.27 g/cm <sup>3</sup>	0.300 lb/in <sup>3</sup>	
Melting Point	1300 – 1375 °C	2370 – 2510 °F	
Coefficient of Expansion	12.1 μm/m °C (20 – 100 °C)	6.7 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)	

Heat Treatment of Finished Parts							
Condition or complication Allera William	<b>T</b>	Temperature		Time (11a)	Cli		
Condition as supplied by Alloy Wire	Туре	°C	°F	Time (Hr)	Cooling		
Appealed or Chring Tomper	Stablize	1010	1850	2	Air		
Annealed or Spring Temper	Age Harden	790	1450	8	Air		

Properties							
Condition	Approx. tensile strength		Approx. operating temperature depending on load** and environment				
	N/mm²	ksi	°C	°F			
Annealed	800 – 1200	116 – 174	Contact AWI Technical department				
Spring Temper	1300 – 1600	190 – 232					
Spring Temper + Stabilised and Aged	1000 – 1300	145 – 190					

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









<sup>\*\*</sup>Static applications = still/fixed/motionless/rigid