



SUPER DUPLEX

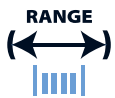
Key Features

- Excellent resistance to stress corrosion cracking in chloride-bearing environments
- Excellent resistance to pitting and crevice corrosion
- High resistance to general corrosion

IMPORTANT

We will manufacture to your required mechanical properties.

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

SUPER DUPLEX 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 %	ISO 15156-3 (NACE MR 0175)	Excellent resistance to stress corrosion cracking in chloride-bearing environments Excellent resistance to pitting and crevice corrosion High resistance to general corrosion	Oil and gas exploration Marine application
C	-	0.03			
Mn	-	1.2	Designations		
Si	-	0.80	W.Nr. 1.4410 UNS S32750 2507 AWS 169		
S	-	0.015			
P	-	0.035			
Cr	24.00	26.0			
Ni	6.0	8.0			
Mo	3.0	4.5			
N	0.24	0.35			
Cu	-	0.5			
Fe	BAL				

Density	7.8 g/cm ³	0.28 lb/in ³
Melting Point	1350 °C	2460 °F
Coefficient of Expansion	13.5 µm/m °C (25 – 100 °C)	7.5 x 10 ⁻⁶ in/in °F (70 – 200 °F)
Modulus of Rigidity	77 kN/mm ²	11000 ksi
Modulus of Elasticity	200 kN/mm ²	29000 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	250	480	1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Solution Annealed	700 – 900	102 – 131	-200 to +300	-330 to +570
Spring Temper	1300 – 1900	189 – 276	-200 to +300	-330 to +570

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