



SUPER DUPLEX

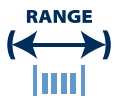
Key Features

- 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



SUPER DUPLEX



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	<1100	<159	-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.