



## SUPER DUPLEX

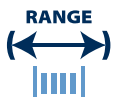
### Key Features

- 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	<b>Designations</b>		
Si	-	0.80	W.Nr. 1.4410		
S	-	0.015	UNS S32750		
P	-	0.035	2507		
Cr	24.00	26.0	AWS 169		
Ni	6.0	8.0			
Mo	3.0	4.5			
N	0.24	0.35			
Cu	-	0.5			
Fe	BAL				

<b>Density</b>	7.8 g/cm <sup>3</sup>	0.28 lb/in <sup>3</sup>
<b>Melting Point</b>	1350 °C	2460 °F
<b>Coefficient of Expansion</b>	13.5 µm/m °C (25 – 100 °C)	7.5 x 10 <sup>-6</sup> in/in °F (70 – 200 °F)
<b>Modulus of Rigidity</b>	77 kN/mm <sup>2</sup>	11000 ksi
<b>Modulus of Elasticity</b>	200 kN/mm <sup>2</sup>	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 <sup>2</sup>	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.