



## DTD 189A



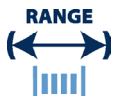
### Key Features

Corrosion resistant

### 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

### DTD 189A available in:-

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

### Packaging

- Coils
- Spools
- Bars or lengths



# DTD 189A

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	DTD 189A	Corrosion resistant	Aircraft Locking wire General Locking wire
C	-	0.15			
Si	0.20	-	<b>Designations</b>		
Mn	-	2.00	AWS 164		
Ni	7.00	10.00			
Cr	17.00	20.00			
Ni + Cr	25.00	-			
Ti or Nb/Cb	4 x C 8 x C	- -			
S	-	0.045			
P	-	0.045			
Fe	BAL				

<b>Density</b>	8.0 g/cm <sup>3</sup>	0.289 lb/in <sup>3</sup>
<b>Melting Point</b>	1398 °C	2550 °F
<b>Coefficient of Expansion</b>	17.5 µm/m °C (20 – 100 °C)	9.7 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	70.3 kN/mm <sup>2</sup>	10196 ksi
<b>Modulus of Elasticity</b>	187.5 kN/mm <sup>2</sup>	27195 ksi

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm <sup>2</sup>	ksi	°C	°F
Annealed	<800	<116	-200 to +300	-330 to +570

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