



ALLOY 20 CB 3

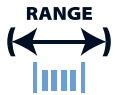
Key Features

- Excellent resistance to hot sulphuric acid & many other aggressive environments that would attack ST/ST 316
- Superior resistance to stress corrosion cracking in boiling 20 – 40% sulphuric acid

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

ALLOY 20 CB 3 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



ALLOY 20 CB 3



alloy wire[®]
international

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ISO 15156-3 (NACE MR 0175)	Excellent resistance to hot sulphuric acid & many other aggressive environments that would attack ST/ST 316	Chemical and allied industries Processing of synthetic rubber High-octane gasoline Solvents Pharmaceuticals Agrichemicals
C	-	0.07			
Si	-	1.00	Designations	Superior resistance to stress corrosion cracking in boiling 20 – 40% sulphuric acid	
Mn	-	2.00	W.Nr. 2.4660		
P	-	0.045	UNS N08020		
S	-	0.035	AWS 130		
Cr	19.00	21.00			
Mo	2.00	3.00			
Ni	32.00	38.00			
Cu	3.00	4.00			
Nb/Cb	8xC	1.00			
Fe	BAL				

Density	8.08 g/cm ³	0.292 lb/in ³
Melting Point	1425 °C	2600 °F
Coefficient of Expansion	14.69 µm/m °C (20 – 100 °C)	8.16 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	73.6 kN/mm ²	10675 ksi
Modulus of Elasticity	193 kN/mm ²	27993 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 – 530	480 – 990	1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Solution Annealed	600 – 900	87 – 131	-200 to +300	-330 to +570
Spring Temper	1200 – 1800	174 – 261	-200 to +300	-330 to +570

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