



ALLOY 20 CB 3

Key Features

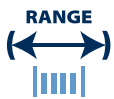
Excellent resistance to hot sulphuric acid & many other aggressive environments that would attack ST/ST 316

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



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