

NITRONIC** 60

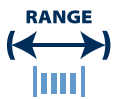
Key Features

- Anti galling
- Wear 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

NITRONIC** 60 available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



**Trade name of AK Steel.

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 5848 ASTM A580	Anti galling Wear resistant	Valve Stems Pins Brushes Roller bearings Pump shafts and rings Thread inserts Fasteners
C	-	0.10	Designations UNS S21800 AWS 166		
Si	3.50	4.50			
Mn	7.00	9.00			
Ni	8.00	9.00			
Cr	16.00	18.00			
S	-	0.03			
P	-	0.04			
Mo	-	0.75			
N	0.08	0.18			
Cu	-	0.75			
Fe	BAL				

Density	7.6 g/cm ³	0.28 lb/in ³
Melting Point	1375 °C	2500 °F
Coefficient of Expansion	15.8 µm/m °C (21 – 200 °C)	8.810 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	69 kN/mm ²	10008 ksi
Modulus of Elasticity	181 kN/mm ²	26200 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	700 – 1000	102 – 145	-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.