

NITRONIC** 60

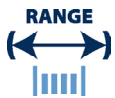
Key Features

- 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			
Si	3.50	4.50	UNS S21800 AWS 166		
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	<1000	<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.