



MP35N*

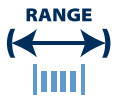
Key Features

- Combination of high strength, ductility and good mechanical properties at ambient temperatures
- Excellent corrosion resistance in hydrogen sulphide
- Excellent resistance to crevice and stress corrosion cracking in sea water
- Age hardenable (Spring Temper only)

IMPORTANT

We will manufacture to your required mechanical properties.

key advantages to you, *our customer*



0.025 mm to 21 mm
(.001" to .827")



Order 3 m to 3 t
(10 ft to 6000 Lbs)



Delivery:
within 3 weeks



Wire to your spec



E.M.S available



Technical support

MP35N* available in:-

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

Packaging

- Coils
- Spools
- Bars or lengths



*Trade name of SPS Technologies

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 5844 AMS 5845 ASTM F562 ISO 15156-3 (NACE MR 0175) ISO 5832-6 Designations W.Nr. 2.4999 UNS R30035 AWS 110	Combination of high strength, ductility and good mechanical properties at ambient temperatures Excellent corrosion resistance in hydrogen sulphide Excellent resistance to crevice and stress corrosion cracking in sea water Age hardenable (Spring Temper only)	Medical Devices Marine Engineering
C	-	0.025			
P	-	0.015			
Si	-	0.15			
Ni	33.00	37.00			
Co	BAL				
Mn	-	0.15			
S	-	0.01			
Cr	19.00	21.00			
Mo	9.00	10.50			
Ti	-	1.00			
Fe	-	1.00			

Density	8.43 g/cm ³	0.304 lb/in ³
Melting Point	1440 °C	2625 °F
Coefficient of Expansion	12.8 µm/m °C (20 – 100°C)	7.1 x 10 ⁻⁶ in/in °F (70 – 212 °F)
Modulus of Rigidity	80.7 kN/mm ²	11705 ksi
Modulus of Elasticity	234 kN/mm ²	33939 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed	-	-	-	-	-
Spring Temper	Age Harden	650	1200	4	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm ²	ksi	°C	°F
Annealed	800 – 1000	116 – 145	-200 to +315	-330 to +600
Spring Temper	1400 – 1900	203 – 276	-200 to +315	-330 to +600
Spring Temper + Aged	1900 – 2200	276 – 319	-200 to +315	-330 to +600

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