AMS 6512 - Maraging 250 Steel

Typical Applications

Driveshafts

Gears

Fasteners

Landing and Takeoff gear

Missile and ejector systems

Maraging 250 is an 18% nickel, cobalt strengthened steel.

It is a very high strength material reaching 1800 MPa after heat treatment, has very good toughness with excellent transverse properties. It is produced by Vacuum Induction Melting (VIM) followed by Vacuum Arc Remelting (VAR).

Related Products

Maraging 250 Stainless Steel

Maraging 300 Stainless Steel

Maraging 350 Stainless Steel

Technical specification

Related Specifications

AMS 6512

BS S162

DTD 5212

G110

Mil-S-46850D

W.Nr 1.6359

Specific Gravity

8.02 g/cm3

Chemical Composition (WT %)

	Min	Max
C	-	0.03
Si	-	0.10
Mn	-	0.10
P	-	0.010
S	-	0.15
Al	0.05	0.005
B	-	0.005
Ca	-	0.05
Co	7.0	8.5
Cr	-	0.5
Mo	4.6	5.2

Ni	17.0	19.00
Ti	0.30	0.50
Zr	-	0.02
Cu	-	0.05
Fe	Bal	-

Typical Mechanical Properties after heat treatment

			Longitudinal	Transverse
0.2% Proof Stress	MPA	Min	1700	1700
Tensile Strength	MPA	Min	1800	1800
Tensile Strength	MPA	Max	2000	2000
Elongation	&	Min	8	5
Reduction of area	%	Mon	40	25
Impacts	(Izod)	ft lbf	18	8

Hardness after Heat Treatment

520-620 HV

Need more information? ***Get in touch***

General Enquiries

+44(0) 1525 217 556

Email us here

Head Office

40 Eden Way
Chartwell Business Park
Leighton Buzzard
Bedfordshire
LU7 4FY

T: +44 (0)1525 217 556

Conversion Centre

Suite 2 Meadowhall Riverside
Meadowhall Road
Sheffield
South Yorkshire
S9 1BW

T: +44 (0)1143 030 320

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