

# 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/cm<sup>3</sup>**

*Chemical Composition (WT %)*

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

<b>Ni</b>	17.0	19.00
<b>Ti</b>	0.30	0.50
<b>Zr</b>	-	0.02
<b>Cu</b>	-	0.05
<b>Fe</b>	Bal	-

*Typical Mechanical Properties after heat treatment*

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

*Hardness after Heat Treatment*

**520-620 HV**

