

## AMS 6512 - MARAGING 250 STEEL

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).

Specific Gravity																
8.02 g/cm <sup>3</sup>																
Typical Applications								Related Specifications								
Driveshafts Gears Fasteners Landing and Takeoff gear Missile and ejector systems								<b>AMS 6512</b> <b>BS S162</b> <b>DTD 5212</b> <b>G110</b> <b>Mil-S-46850D</b> <b>W.Nr 1.6359</b>								
Chemical Composition (Wt %)																
	C	Si	Mn	P	S	Al	B	Ca	Co	Cr	Mo	Ni	Ti	Zr	Cu	Fe
Min	–	–	–	–	–	0.05	–	–	7.0	–	4.6	17.0	0.30	–	–	Bal
Max	0.03	0.10	0.10	0.010	0.15	0.005	0.005	0.05	8.5	0.5	5.2	19.00	0.50	0.02	0.05	–
Typical Mechanical Properties after heat treatment																
								0.2% Proof Stress	Tensile Strength		Elongation	Reduction of area	Impacts			
								MPA	MPA		%	%	(Izod)			
								Min	Min	Max	Min	Mon	ft lbf			
Longitudinal								1700	1800	2000	8	40	18			
Transverse								1700	1800	2000	5	25	8			
Hardness after Heat Treatment																
520-620 HV																

\* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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## General Enquiries

T: +44 (0) 1525 217 556 [\(tel:+4401525217556\)](tel:+4401525217556)

E: [sales@dynamicmetalsltd.com](mailto:sales@dynamicmetalsltd.com) [\(mailto:sales@dynamicmetalsltd.com\)](mailto:sales@dynamicmetalsltd.com)



## UK Address:

### *Head Office*

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

T: +44 (0)1525 217 556 [\(tel:+441525217556\)](tel:+441525217556)

### *Conversion Centre*

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

T: +44 (0)1143 030 320 [\(tel:+4401143030320\)](tel:+4401143030320)

### *Registered Office (only)*

The Granary  
Crowhill Farm Ravensden Road  
Wilden  
Bedfordshire  
MK44 2QS

T: +44 (0)1525 217 556 [\(tel:+441525217556\)](tel:+441525217556)



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