

AMS 6514 - MARAGING 300 STAINLESS STEEL

Maraging 300 (also known as Vascomax® 300) is an 18% nickel, cobalt strengthened steel. It is a very high strength material reaching a UTS of 1930 MPA after heat treatment. It is produced by Vacuum Induction Melting (VIM) followed by Vacuum Arc Remelting (VAR).

Specific Gravity													
8.0 g/cm ³													
Typical Applications							Related Specifications						
Driveshafts							AMS 6514						
Gears							ASTM A538						
Fasteners							Mil-S-46850D						
Landing and Takeoff gear							UNS K93120						
Missile and ejector systems							W.Nr 1.6358						
Torsion springs													
Chemical Composition (Wt %)													
	C	Si	Mn	P	S	Al	Co	Ni	Mo	Ti	Cr	Cu	Fe
Min	–	–	–	–	–	0.05	8.5	18.00	4.6	0.5	–	–	Bal
Max	0.03	0.10	0.10	0.010	0.010	0.15	9.5	19.00	5.20	0.8	0.5	0.5	–
Typical Mechanical Properties after heat treatment													
0.2% Proof Stress							Tensile Strength	Elongation	Hardness				
MPA							MPA	%	HRC				
Min							Min	Min	Min				
1862							1930	5	52				

* 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)



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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