

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/cm3													
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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