

AERMET 100 STAINLESS STEEL - AMS 6532

Aermet 100 steel (AMS 6532) has a high hardness and strength combined with very good toughness and ductility. Aermet 100 is generally used for applications that require high strength, high fracture toughness and good resistance to stress corrosion cracking and fatigue.

Specific Gravity															
7.9 g/cm ³															
Typical Applications								Related Specifications							
Landing Gear								AMS 6532							
Drive Shafts								UNS K92580							
Fasteners															
Actuators															
Jet Engine Shafts															
Chemical Composition															
	C	Al	Co	Cr	Mn	Mo	N	Ni	O	P	S	S+P	Si	Ti	Fe
Min	0.21	–	13	2.9	–	1.1	–	11	–	–	–	–	–	–	Bal
Max	0.25	0.015	14	3.3	0.1	1.3	0.0015	12	0.002	0.008	0.005	0.01	0.1	0.015	–
Typical Mechanical Properties after heat treatment															
									0.2% Proof Stress	Tensile Strength	Elongation	Reduction of area			
									MPA	MPA	%	%			
									Min	Min	Min	Min			
Longitudinal									1620	1931	10	55			
Transverse									1620	1931	8	45			

* 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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