

A286 STAINLESS STEEL BAR - AMS 5726, AMS 5731, AMS 5732

A286 is a precipitation hardenable alloy. High nickel and chromium content gives it a good resistance to corrosion up to about 1300 Deg C and Oxidation up to about 1500 Deg F. A286 (UNS S66286) can be age hardened to a high strength level. The alloy is also used for low temperature applications requiring a ductile, non-magnetic high strength material at temperatures ranging from above room temperature down to at least -320 Deg F. The alloy (AMS 5726, AMS 5731, AMS 5732, AMS 5737) may be used for moderate corrosion applications in aqueous solutions.

Specific Gravity													
7.9 g/cm ³													
Typical Applications							Related Specifications						
Fasteners Stud Bolts Industrial Gas Turbines							AMS 5726 AMS 5731 AMS 5732 AMS 5737 BS HR 51 BS HR 52 W.Nr 1.4943 W.Nr 1.4944 UNS S66286						
Chemical Composition (Wt %)													
	C	Mn	P	S	Si	Cr	Ni	Mo	Ti	V	Al	B	Fe
Min	-	-	-	-	-	13.5	24	1	1.9	0.10	-	0.003	-
Max	0.08	2.0	0.025	0.025	1	16	27	1.5	2.35	0.50	0.035	0.010	Bal
Typical Mechanical Properties													
					0.2% Proof Stress	Tensile Strength	Elongation	Reduction of area	Hardness				

	MPA	MPA	%	%	HB
	Min	Min	Min	Min	
Sol treated and Aged 1800 Deg F (AMS 5732)	586	896	15	–	248 – 341
Sol Treated and Aged 1650 Deg F (AMS 5737)	655	965	12	–	277 – 363

* 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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