

Also known as Alloy 660, A286 fasteners offer excellent high temperature oxidation resistance. A286 bolts are typically used for high strength, creep resistance and oxidation resistance at extreme temperatures up to 1300°F (700°C). Their high temperature properties make A286 fasteners ideal for engine manifold, exhaust and turbine applications. A286 is also non-magnetic finding a niche in non-magnetic cryogenic equipment.

Properties

Ultimate Tensile Strength	120 / 160 ksi
Yield Strength at 0.2%	85 / 120 ksi
Elongation %	25
Usable Temperature Limit	1300°F / 700°C

Key Benefits

- Excellent high temperature strength to 1300°F (700°C)
- Excellent creep and oxidation resistance at high temperatures
- Non-magnetic

Chemistry & Specifications

A286	Fe	Ni	Cr	Ti	Mn	Mo	Si	Co	Va	Al	C	P	S	B
Min %	-	24.0	13.5	1.9		1.0			0.1					0.003
Max %	Bal	27.0	16.0	2.35	2.0	1.5	1.0	1.0	0.5	0.35	0.08	0.025	0.025	0.01

SPECIFICATIONS: UNS S66286, ASTM A453, AMS 5525, AMS 5732, AMS 5737, AMS 5804, EN 1.4980, GE B50T1181, GE B50T12, GE B50T81, Werkstoff 1.4980

Material Data

A286 STAINLESS STEEL - MECHANICAL PROPERTIES

Material Condition (Grades A-D per ASTM A453)	Ultimate Tensile (ksi) min	Yield Strength at 0.2% Offset (ksi) min	Elongation %	RA % min
A	130	85	15	18
B	130	85	15	18
C	130	85	15	18
D	130	105	15	18
Cold Worked	160	120	12	18