TorqBolt Inc.

MATERIAL GRADE DATA SHEET

SA 286 660 CLASS A

NICKEL ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

Stainless steel A286 660 Class A is a heat and corrosion resistant austenitic iron-base material that can be age hardened to a high strength level. It is designed for use at temperatures up to 704°C (1300°F) where good corrosion resistance, excellent creep strength and high tensile strength are required. The alloy can also be used for low temperature applications that require a ductile, non-magnetic high strength material at temperatures below room temperature.

Chemical Properties

C	Mn	P	S	Si	Cr	Mo	Ni	Ti	W	B	Al
0.08 Max	2.00 Max	0.04 Max	0.03 Max	1.00 Max	13.5-16.0	1.00-1.50	24.0-27.0	1.90-2.35	0.1-0.5	0.001-0.01	0.35 Max

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	Hardness		
Mpa	Mpa	%	%	BHN	HRB	HRC
min	min	min	min			
585	895	15	18	248-341	99	37

STREE RUPTURE REQUIREMENTS

Grade	Class	Test Temperature	Stress, Min		Time to Rupture	Elongation
		Deg F [Deg C]	Ksi	Mpa	Min, h*	Min %
660	A	1200 [650]	56	385	100	5

Heat Treatment

Solution treated @ 900°C ± 14°C hold 2h ,min & liquid quench and Hardened @ 720°C ± 14°C hold 16h & air cooled

Equivalent Designation

UNS S66286
AISI 660
JIS G4312/ SUH 660
Werkstoff.No. 1.4844/1.4980
AMS 5525
AFNOR X15CrNiSi25-20
BS HR52/560

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