TorqBolt Inc.

MATERIAL GRADE DATA SHEET

S39277/F57

SUPER DUPLEX ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

This is a Super Duplex alloy stainless steel designed to feature high strength, resistance to pitting, stress corrosion cracking, erosion corrosion and corrosion fatigue, crevice corrosion and strong weldability.

Chemical Properties

C	Mn	P	S	Si	Cr	NI	Mo	Cu	N	W
0.025 Max	0.80 Max	0.025 Max	0.002 Max	0.80 Max	24.0-26.0	6.5-8.0	3.0-4.0	1.20-2.00	0.23-0.33	0.80-1.20

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	Hardness
Mpa	**Mpa**	**%**	%	**BHN**
min	**min**	**min**	**min**	
585	820	25	50	

Heat Treatment

Solution Annealed @ 1060°C & Liquid Quenched @ 80°C

Equivalent Designation

UNS S39277
EN number
EN Name
W.Nr.
SS
AFNOR

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