TorqBolt Inc.

MATERIAL GRADE DATA SHEET

S 39274/F54

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
0.030 Max	1.00 Max	0.030 Max	0.020 Max	0.80 Max	24.0-26.0	6.0-8.0	2.5-3.5	0.20-0.80	0.24-0.32	1.50-2.50

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	Hardness
Mpa	Mpa	%	%	BHN
min	min	min	min	
550	800	15	30	310

Heat Treatment

Solution Annealed @ 1050°C-1125°C & Liquid Quenched @ 260°C

Equivalent Designation

UNS S39274
EN number
EN Name
W.Nr.
SS
AFNOR

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