Torq Bolt Inc.

ASTM A 193 Gr.B8R

ER

M A

CLASS 1D

ΑL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

STAINLESS

STEFI

ASTM A193 Gr.B8R Class 1D also known as Nitronic 50 is a chromium-nickel-manganese-molybdenum austenitic stainless steel that remains completely nonmagnetic after severe cold working or exposure to low temperatures. Its unique feature is the combination of higher strength and better corrosion resistance than the more widely used austenitic stainless grades. ASTM A193 Gr.B8R Class 1D which covers alloy and stainless steel bolting for pressure vessels, valves, flanges, and fittings for high temperature or high pressure service, or other special purpose applications. Nitronic 50 is ideal where 316, 316L, 317 and 317L are marginal. It has found wide use in the petroleum, petrochemical, chemical, pulp and paper, textile, food, nuclear and marine industries.it is carbide solution treated.

GRADE

Chemical Properties

С	Si	Mn	Р	S	Cr	Ni
0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	18.0-20.0	8.0-11.0

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	Min %	HRB Max
380	690	35	55	28

Heat Treatment

Carbide Solution Treated

Equivalent Designation

UNS S20910 Din X3 CrNiMnMoNbN Werkstoff.No. 1.4565

CUSTOMER ASSISTANCE : customer@TorqBolt.com

#4/217, Deccan Bank Bldg, R. R. Roy Road, Mumbai – 400 004, Maharashtra, INDIA Email:info@TorqBolt.com Web: www.TorqBolt.com

Copyright 2013 Torqbolt Inc.