

F 568M 10.9.3 B

HIGH TENSILE

EXTER

F 568M covers chemical and mechanical requirement for nine property classes of carbon and alloy steel thread diameters. F 568M does not cover dimensional requirements for fasteners of any property class. For procurement purpose, it is mandatory that size, type, style, and any special dimensions of the product for the nine property classes are essentially identical with requirements given for these classes in ISO 898/1. The corrosion resistance and weathering characteristics comparable to those steels covered in Specification

Chemical Properties

C	Mn	P	S	Si	Cr	Mo
0.36-0.50	0.67-0.93	0.06-0.125	0.055 Max	0.25-0.55	0.47-0.83	0.07 Max

Mechanical Properties

Yield strength	Tensile strength	Elongation	Re
Mpa	Mpa	%	
min	min	min	
940	1040	9	

Proof Load Values, kN

Nominal Product Diameter & Thread Pitch						
	M5 X 0.8	M6 X 1	M8 X 1.25	M10 X 1.5	M12 X 1.75	M14 X 2
Method 1	11.8	16.7	30.4	48.1	70.0	95.5
Method 2	13.3	18.9	34.4	54.5	79.2	108

M20 X 2.5	M22 X 2.5	M24 X 3	M27 X 3	M30 X 3.5	M36 X 4
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203	251	293	381	466	678
230	285	332	431	527	763

M48 X 5	M56 X 5.5	M64 X 6	M72 X 6	M80 X 6	M90 X 6
1220	1680	2220	2870	3600	4640
1380	1910	2520	3250	4080	5250

Heat Treatment

Quenched & Tempered @ 425°C

Equivalent Designation

UNS
EN number
EN Name
W.Nr.
SS
AFNOR

TorqBolt Inc

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Alloy steel externally threaded metric fasteners in nominal diameters 1.6mm to 20mm. When referencing this specification for fasteners, the material grade shall be additionally specified. Requirement for seven of the grades is for atmospheric corrosion resistance, whereas other two classes have atmospheric corrosion resistance in accordance with ASTM A 588.

Ni	Cu
0.47-0.83	0.17-0.43

Reduction of Area	Hardness
%	HRC
min	
35	33-39

M16 X 2
130
148

M42 X 4.5

930
1050

M100 X 6
5800
6570



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