F 568M 10.9.3 A

HIGH TENSILE

EXTER

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

Chemical Properties

С	Mn	P	S	Si	Cr	Ni
0.31-0.42	0.86-1.24	0.045 Max	0.055 Max	0.13-0.37	0.42-0.68	0.22-0.48

Mechanical Properties

Yeild strength	Tensile strength	Elongation	Re
Мра	Мра	%	
min	min	min	
940	1040	9	

Proof Load Values, kN

		No	ominal Product	Diameter & Th	read 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
11120 X 2.0	111ZZ / 2.0	11121710	11127 710	11100 /1 0.0	77100 71

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



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TorqBolt Inc



el externallythreaded metric fasteners in nominal When referencing this specification for pe additionally specified. Requirement for seven of , where as other two classes have atmospheric on A 588. Grade 10.9.3 have their classes are A, B,

Cu	
0.22-0.48	

duction	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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