

F 568M 8.8.3 C

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	Ni
0.14-0.26	0.76-1.39	0.040 Max	0.045 Max	0.13-0.37	0.27-0.53	0.22-0.53

Mechanical Properties

Yield strength	Tensile strength	Elongation	Re
Mpa	Mpa	%	
min	min	min	
660	830	12	

Proof Load Values, kN

Nominal Product Diameter & Thread Pitch						
	M20 X 2.5	M22 X 2.5	M24 X 3	M27 X 3	M30 X 3.5	M36 X 4
Method 1	147	182	212	275	337	490
Method 2	162	200	233	303	370	539

M42 X 4.5	M48 X 5	M56 X 5.5	M64 X 6	M72 X 6	M80 X 6
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672	882	1220	1610	2050	2600
730	970	1340	1790	2280	2860

Heat Treatment

Quenched & Tempered @ 425°C

Equivalent Designation

UNS
EN number
EN Name
W.Nr.
SS
AFNOR



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Alloy steel externally threaded metric fasteners in nominal diameters 3 to 24 mm. When referencing this specification for diameters 3 to 24 mm, the diameter shall be additionally specified. Requirement for seven of the diameters is 8.8, where as other two classes have atmospheric corrosion resistance in accordance with A 588.

Cu	V
0.17-0.53	0.010 Min

Reduction of Area	Hardness
%	HRC
min	
35	23-34

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