

## ASTM F568 4.8

## CARBON ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM F568 defines materials used for manufacturing a broad category of fasteners with a wide variety of materials strengths. All metric fasteners are made using materials that are specified in ASTM F568. Some classes of bolts in the F568 family that are essentially equivalent to some common types of structural bolts are the following:

### Chemical Properties

C Max	P Max	S Max
0.55	0.048	0.058

### Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction	Hardness
Mpa	Mpa	%	%	BHN
min	min	min	min	
340	420	14	35	71-95

### Proof Load Values, kN

#### Nominal Product Diameter & Thread Pitch

	M16 X 0.35	M2 X 0.4	M25 X 0.45	M3 X 0.5	M3.5 X 0.6	M4 X 0.7	M5 X 0.8
<b>Method 1</b>	0.39	0.64	1.05	1.56	2.10	2.72	4.4
<b>Method 2</b>	0.43	0.70	1.15	1.71	2.31	2.99	4.8

	M6 X 1	M8 X 1.25	M10 X 1.5	M12 X 1.75	M14 X 2	M16 X 2
	6.23	11.3	18.0	26.1	35.7	48.7
	6.83	12.4	19.7	28.7	39.1	53.4

### Heat Treatment

Quench & Tempered

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