

ASTM F568 4.6

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	
240	400	22	35	67-95

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	M16 X 2	M20 X 2.5	M24 X 3
Method 1	3.20	4.52	8.24	13.1	19.0	25.9	35.3	55.1	79.4
Method 2	3.41	4.82	8.78	13.9	20.2	27.6	37.7	58.8	84.7

M30 X 35	M36 X 4	M42 X 4.5	M48 X 5	M56 X 5.5	M64 X 6	M72 X 6	M80 X 6	M90 X 6	M100 X 6
126	184	252	331	457	603	779	977	1260	1570
135	196	269	353	487	643	830	1040	1340	1680

Heat Treatment

Quench & Tempered

CUSTOMER ASSISTANCE : customer@TorqBolt.com