

ASTM F568 8.8

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: Class 8.8 mechanical properties are essentially the same as A449 and A325 Types 1 and 2 (note: the material is similar to A325 but the geometry is different).

Chemical Properties

C Max	P Max	S Max
0.25-0.55	0.048	0.058

Mechanical Properties

Yield strength Mpa min	Tensile strength Mpa min	Elongation % min	Reduction % min	Hardness BHN
660	830	12	35	23-34

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
	672	882	1220	1610	2050	2600
	730	970	1340	1790	2280	2860

Heat Treatment

Quenched & Tempered @ 425°C

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