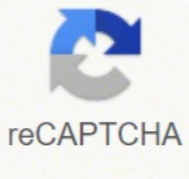




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ASTM, SAE AND ISO GRAD MARKINGS AND MECHANICAL PROPERTIES FOR STEEL FASTENERS

Grade Marking	Specification	Material	Bolt and Screw Size in.	Proof Load, psi	Tensile Strength, psi
	SAE-Grade 1	Low Carbon Steel	1/4 thru 1-1/2	33,000	60,000
	ASTM-A 307		1/4 thru 1-1/2	33,000	60,000
	SAE-Grade 2	Low Carbon Steel	1/4 thru 3/4	58,000	74,000
	ASTM-A 307		Over 3/4 thru 1-1/2	33,000	60,000
	SAE-Grade 5	Medium Carbon Steel, Quenched and Tempered	1/4 thru 1-1/2	85,000	120,000
	ASTM-A 449		1/4 thru 1-1/2	74,000	105,000
	ASTM-A 325	Medium Carbon Steel, Quenched and Tempered	1/2, 5/8, 3/4	85,000	120,000
	SAE-Grade 8		7/8, 1	78,000	115,000
	ASTM-A 354 Grade BD	Medium Carbon Alloy Steel, Quenched and Tempered	1-1/8 thru 1-1/2	74,000	105,000
	SAE-Grade 8		1/4 thru 1-1/2	120,000	150,000
	ASTM-A 490	Alloy Steel, Quenched and Tempered	1/2 thru 2-1/2	120,000	150,000
	SAE-Grade 8		Over 2-1/2 thru 4	105,000	140,000

ASTM Specifications
 A 307 - Low Carbon Steel Hexagon and Hex Flange Headed Standard Fasteners
 A 307 - High Strength Steel Bolts for Structural Steel Joists, Including Subsize Nuts and Plain Hardened Washers
 A 449 - Quenched and Tempered Steel Bolts and Screws, Including Subsize Nuts and Plain Hardened Washers
 A 325 - High Strength Alloy Steel Bolts for Structural Steel Joists, Including Subsize Nuts and Plain Hardened Washers

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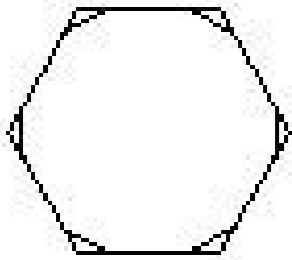
Mechanical Specifications for Externally Threaded Fasteners with Grade Markings

Specification	Material	Size Range (in.)	Min. Proof Strength (psi)	Min. Tensile Strength (psi)	Core Hardness Rockwell		Min. Yield Strength (psi)	Grade Identification Marking	
					Min.	Max.			
SAE J429-Grade 1	Low or medium carbon steel	1/4 - 1 1/2	33,000	60,000	B70	B100	36,000		
SAE J429-Grade 2		1/4 - 3/4	55,000	74,000	B80	B100	57,000		
ASTM A307-Grade A	Low or medium carbon steel	1/4 - 4	33,000	60,000	B69	B100	36,000		
ASTM A307-Grade B								60,000(min)	100,000(max)
SAE J429-Grade 5	Medium carbon steel, quenched & tempered	1/4 - 1	85,000	120,000	C25	C34	92,000		
ASTM A449-Type 1		1 1/8 - 1 1/2	74,000	105,000	C19	C30	81,000		
ASTM A449-Type 1	Medium carbon steel, quenched & tempered	1 3/4 - 3	55,000	90,000			58,000		
ASTM A325-Type 1		1/2 - 1	85,000	120,000	C25	C34	92,000		
ASTM A325-Type 1	1 1/8 - 1 1/2	74,000	105,000	C19	C30	81,000			
ASTM A354 Grade BC	Medium carbon alloy steel, quenched & tempered	1/4 - 2 1/2	105,000	125,000	C26	C36	109,000		
ASTM A354 Grade BC		Over 2 1/2 - 4	95,000	115,000	C22	C33	99,000		
ASTM A354 Grade BD	Medium carbon alloy steel, quenched & tempered	1/4 - 2 1/2	Over 2 1/2 - 4	120,000	150,000	C33	C39	130,000	
ASTM A354 Grade BD				105,000	140,000	C31	C39	115,000	
SAE J429-Grade 8	Medium carbon alloy steel, quenched & tempered	1/4 - 1 1/2	120,000	150,000	C33	C39	130,000		
SAE J429-Grade 8.2									Low carbon boron steel, quenched & tempered
ASTM A490-Type 1	Medium carbon alloy steel, quenched & tempered	1/2 - 1 1/2	120,000	150,000(min)	173,000(max)	C33	C39	130,000	
ASTM A490-Type 1				173,000(max)					
ASTM A574 Alloy Steel Socket Head Cap Screw	Medium carbon alloy steel, quenched & tempered	#0 - 1/2	over 1/2 - 2	140,000	190,000	C39	C45	153,000	
ASTM A574 Alloy Steel Socket Head Cap Screw				135,000	170,000	C37	C45		
ASTM F835 Alloy Steel Socket Button & Flat Countersunk Head Cap Screw	Medium carbon alloy steel, quenched & tempered	#0 - 1/2	Over 1/2	145,000	190,000	C39	C44	153,000	
ASTM F835 Alloy Steel Socket Button & Flat Countersunk Head Cap Screw				135,000	170,000	C37	C44		

Note 1: ASTM A354-Grade BD shall be marked "BD", and in addition to "BD", the product may be marked six radial lines 60° apart.

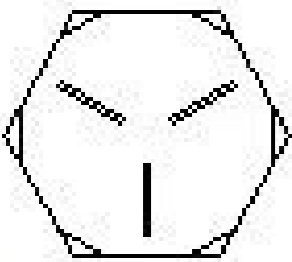
Heat Treated Steel Bolts - Grade Identification Markings

Grade 2



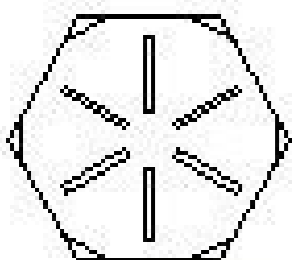
No Markings

Grade 5



3 Radial Lines

Grade 8



6 Radial Lines

METRIC BOLT TORQUE CHART

Recommended Torque in Nm

Bolt Diameter	Property Class 4.8	Property Class 8.8	Property Class 10.9
M5	3	7	9
M6	6	12	16
M8	15	30	40
M10	25	55	75
M12	50	100	135
M14	80	160	215
M16	125	245	335
M20	240	480	650
M24	410	825	1125
M30	820	1640	2240
M36	1435	2870	3910

Bolt class 8.8 means. What is grade 8.8 bolt. Bolt grade 10.9 vs 8.8. Stainless steel bolt grade 8.8 meaning. Bolt grade 8.8 meaning. Bolt grade 8.8 meaning pdf. What does 8.8 mean on a bolt.

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It's pretty good. It's suitable for who want to improve their reading skill. The .325 Winchester Short Magnum, commonly known as the 325 WSM is an 8mm caliber rebated rim bottlenecked centerfire short magnum medium bore cartridge.The cartridge was introduced by Winchester Ammunition in 2005. The name of the cartridge is a misnomer, as the bullet diameter is .323 in (8.2 mm). Introduced at the 2005 Shot Show in Las Vegas, NV, it is ... The “80” denotes the minimum tensile strength to be met by the material (actually the bolt, screw or nut after manufacture). Therefore, A4-80 is an austenitic, acid proof stainless grade (usually 316 material – 316 or 316L) which has been cold worked to provide a minimum tensile strength of 800N/mm ² (MPa). Silence definition, absence of any sound or noise; stillness. See more. Night definition, the period of darkness between sunset and sunrise. See more.

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