



ULTRA FASTENERS USA
Everything Fasteners

IMPERIAL / STANDARD BOLT GRADES / HEAD MARKINGS

Specification	Material	Size Range (in.)	Min. Proof Strength (psi)	Min. Tensile Strength (psi)	Core Hardness Rockwell		Min. Yield Strength (psi)	Grade Identification Marking	Compatible Nuts
					Min.	Max.			
SAE J429-Grade 1	Low or medium carbon steel	1/4 - 1 1/2	33,000	60,000	B70	B100	36,000		ASTM A563 Grade A Hex
SAE J429-Grade 2		1/4 - 3/4 7/8 - 1 1/2	55,000 33,000	74,000 60,000	B80 B70	B100 B100	57,000 36,000		
ASTM A307-Grade A	Low or medium carbon steel	1/4 - 4		60,000	B69	B100			ASTM A563 Grade A (Hex up to 1-1/2 & Heavy Hex 1-1/2 and over)
ASTM A307-Grade B	Low or medium carbon steel	1/4 - 4		60,000(min)	B69	B95			ASTM A563 Grade A Heavy Hex
SAE J429-Grade 5	Medium carbon steel: quenched & tempered	1/4 - 1 1 1/8 - 1 1/2	85,000 74,000	120,000 105,000	C25 C19	C34 C30	92,000 81,000		SAE J995 Grade 5 Hex
ASTM A325 - Type 1	Medium carbon steel: quenched & tempered	1/4 - 1 1 1/8 - 1 1/2	85,000 74,000	120,000 105,000	C25 C19	C34 C30	92,000 81,000		
ASTM A449-Type 1	Medium carbon steel: quenched & tempered	1/4 - 1 1 1/8 - 1 1/2 1 3/4 - 3	85,000 74,000 55,000	120,000 105,000 90,000	C25 C19	C34 C30	92,000 81,000 58,000		SAE J995 Grade 5 up to 1-1/2, ASTM A563 Grade A Heavy Hex 1-1/2 & over, DH Heavy Hex if Galv
ASTM A354- Grade BC	Medium carbon alloy steel: quenched & tempered	1/4 - 2-1/2 Over 2-1/2	105,000 95,000	125,000 105,000	C26 C22	C36 C33	109,000 99,000		ASTM A563 Grade C Heavy Hex, DH if Galv
SAE J429-Grade 8	Medium carbon alloy steel: quenched & tempered	1/4 - 1 1/2	120,000	150,000	C33	C39	130,000		SAE J995 Grade 8 Hex
ASTM A354 Grade BD	Medium carbon alloy steel: quenched & tempered	1/4 - 2-1/2 Over 2-1/2	120,000 105,000	150,000 140,000	C33 C31	C39 C39	130,000 115,000		ASTM A563 Grade DH Heavy Hex
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 A563 Grade DH Heavy Hex
SAE J429-Grade 8.2	Medium carbon boron steel: quenched & tempered	1/4 - 1	120,000	150,000	C33	C39	130,000		SAE J995 Grade 8 Hex
FNL Grade 9	Medium carbon alloy steel: quenched & tempered	1/4 - 1-1/4	140,650	180,000	C38	C42	159,500		FNL Grade 9 Thick Hex Nut
ASTM A574 Socket Head Cap Screw	Medium carbon alloy steel: quenched & tempered	#0 - 1/2 over 1/2 - 2	140,000 135,000	180,000 170,000	C39 C37	C45 C45	 153,000		
ASTM F835 Socket Button & Flat Countersunk Head Cap Screw	Medium carbon alloy steel: quenched & tempered	#0 - 1/2 over 1/2		145,000 135,000	C39 C37	C44 C44			
ASTM F1554 Anchor Bolts, Steel Grade 36	Low or medium carbon steel	1/4 - 4-in		58,000(min) 80,000 (max)			36,000		ASTM A563 Grade A (hex up to 1-1/2 & Heavy Hex 1-1/2 and over)



ULTRA FASTENERS USA
Hard to find Fasteners is our Specialty

CONTACT US

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Don't Call Us Last..**

