

# HEX BOLTS GRADE 5 AND 8 DOMESTIC

## SUBMITTAL SPECIFICATIONS

Abstract of SAE J429

## CHEMICAL REQUIREMENTS

Chemical analysis shall be performed in accordance with SAE J429

	CARBON		PHOPHOUS		SULFUR	
	MIN	MAX	MIN	MAX	MIN	MAX
GRADE 5	0.28	0.55	-	0.05	-	0.06
GRADE 8	0.28	0.55	-	0.04	-	0.05

## MECHANICAL REQUIREMENTS

	HARDNESS ROCKWELL		TENSILE STRENGTH (KSI)		PROOF LOAD (KSI)		ELONGATION
	MIN	MAX	MIN	MAX	MIN	MAX	
GRADE 5	C19	C34	105	120	75	85	14
GRADE 8	C33	C39	150	-	120	-	12

## GRADE: CARBON STEEL GRADES 1 THOUGH 8

Hex Nuts ASTM A563     Hex Nuts Grade 5 SAE J995     Hex Nuts Grade 8 SAE J995

Washers ASTM F844-00 (ASME B18.22.1)

## BOLTS AND NUTS MAY BE SUPPLIED

Plain     Zinc Plated     Hot Dip Galvanized     Blue Xylan

## LOCATION

Buried     Submerged     Above Grade     Below Grade     Other

**DIMENSIONAL DATA:** Unless otherwise specified, threads shall be the coarse threaded series as specified in the latest issue of ANSI / ASME B1.1, page A-26. Having a class 2A tolerance. Bolts shall have Hex Heads with Dimensions as given in the latest issue of ANSI / ASME B 18.2.1, page C1.

**ADDITIONAL INFORMATION:** Additional information can be found in SAE J429, SAE J995, and ASTM A563.