

# Product Information Sheet

## HEX CAP SCREWS, INCH SERIES, GRADE 5

**Material and Mechanical Properties:** Purchased to meet SAE J429 Grade 5

**Dimensions:** ASME B18.2.1 Rolled Threads

Domestic 1/8 to 1 1/2 diameters are Hex Bolts

**Zinc Plating:** Purchased to meet ASTM F1941 FeZn3A

**Typical Hardness:** HRC 25-34 on sizes 1/4 to 1 inch; HRC 19-30 on sizes over 1 to 1 1/2 inches

**Tensile Strength:** 120,000 PSI minimum on sizes 1/4 to 1 inch; 105,000 PSI minimum on sizes over 1 to 1 1/2 inches



TENSILE STRENGTH - NC THREADS			TENSILE STRENGTH - NF THREADS		
Size	PSI	Pounds	Size	PSI	Pounds
1/4-20	120,000	3800	1/4-28	120,000	4350
5/16-20	120,000	6300	4/16-24	120,000	6950
3/8-16	120,000	9300	3/8-24	120,000	10,500
7/16-14	120,000	12,800	7/16-20	120,000	14,200
1/2-13	120,000	17,000	1/2-20	120,000	19,200
9/16-12	120,000	21,800	9/16-18	120,000	24,400
5/8-11	120,000	27,100	5/8-18	120,000	30,700
3/4-10	120,000	40,100	3/4-16	120,000	44,800
7/8-9	120,000	55,400	7/8-14	120,000	61,100
1-8	120,000	72,700	1-12	120,000	79,600
1 1/8-7	105,000	80,100	1-14	120,000	81,500
1 1/4-7	105,000	101,700	1 1/9-12	105,000	89,900
1 3/8-6	105,000	121,300	1 1/4-12	105,000	112,700
1 1/2-6	105,000	147,500	1 3/8-12	105,000	138,700
			1 1/2-12	105,000	166,000



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