

HEX NUT
GRADE 5 UNC

APPLICATION

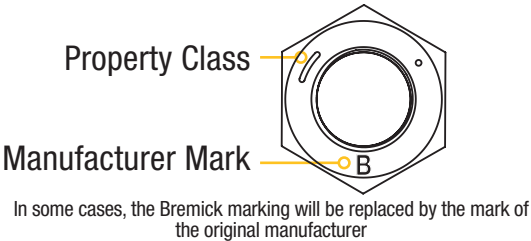
Bremick® Hex Nuts UNC Grade 5 are designed for industrial and construction applications where high tensile superior performance is required

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Grade 5
Thread Form:	Class 2B
Finish:	Plain/Black/Natural
Standard:	Complies to AS/NZS 2465:1999
Mechanical Properties:	Complies to SAE J995:2017
Chemical Composition:	Complies to SAE J995:2017



MARKING



MECHANICAL PROPERTIES

DIAMETER (inches)		1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
PROOF LOAD (lbf)	MIN	3800	6300	9300	12800	17000	21800	27100	40100	55400	72700	80100	102000	121000	148000
STRESS UNDER PROOF LOAD (psi)	MIN	120000										105000			
HARDNESS	ROCKWELL (HRC)	MAX	32												

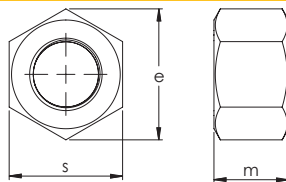
CHEMICAL COMPOSITION (%)

MATERIAL	C	Mn	P	S
	MAX	MAX	MAX	MAX
CARBON STEEL	0.55	0.30	0.05	0.15

FINISH INFORMATION

PLAIN / BLACK / NATURAL		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added.	Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	—

DIMENSIONAL DATA (inches)



DIAMETER	TPI	ACROSS FLATS (s)		ACROSS CORNERS (e)		NUT HEIGHT (m)	
	UNC	MIN	MAX	MIN	MAX	MIN	MAX
1/4	20	0.428	0.438	0.488	0.505	0.212	0.226
5/16	18	0.489	0.500	0.557	0.577	0.258	0.273
3/8	16	0.551	0.562	0.628	0.650	0.320	0.337
7/16	14	0.675	0.688	0.768	0.794	0.365	0.385
1/2	13	0.736	0.750	0.840	0.866	0.427	0.448
9/16	12	0.861	0.875	0.982	1.010	0.473	0.496
5/8	11	0.922	0.938	1.051	1.083	0.535	0.559
3/4	10	1.088	1.125	1.240	1.299	0.617	0.665
7/8	9	1.269	1.312	1.447	1.516	0.724	0.776
1	8	1.450	1.500	1.653	1.732	0.831	0.887
1 1/8	7	1.631	1.688	1.859	1.949	0.939	0.999
1 1/4	7	1.812	1.875	2.066	2.165	1.030	1.094
1 3/8	6	1.994	2.062	2.273	2.382	1.138	1.206
1 1/2	6	2.175	2.250	2.480	2.598	1.245	1.317
1 3/4	5	2.538	2.625	2.893	3.031	1.460	1.553
2	4.5	2.900	3.000	3.306	3.464	1.675	1.763
2 1/2	4	3.625	3.750	4.133	4.330	2.105	2.209

Note: Dimensions for diameters > 1-1/2 are manufactured to ASME B18.2.2

SOCKET OR SPANNER SIZE (inches)

BOLT DIAMETER	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/2
SPANNER SIZE	7/16	1/2	9/16	5/8	3/4	13/16	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/16	2-1/4	2-5/8	3	3 3/4