



HEAVY HEX NUTS | ASTM A563 | ASME B18.2.2

Nominal Size	A			B		C			Weight per M nuts
	Width Across Flats			Width Across Corners		Thickness			
	Basic	Max	Min	Max	Min	Basic	Max	Min	
3/8	11/16	0.688	0.669	0.794	0.763	23/64	0.377	0.341	30
1/2	7/8	0.875	0.850	1.010	0.969	31/64	0.504	0.464	70
5/8	1-7/16	1.062	1.031	1.227	1.175	39/64	0.631	0.587	120
3/4	1-5/8	1.250	1.212	1.443	1.382	47/64	0.758	0.71	200
7/8	1-7/16	1.438	1.394	1.660	1.589	55/64	0.885	0.833	300
1	2	1.625	1.575	1.876	1.796	63/64	1.012	0.956	430
1-1/8	1-13/16	1.812	1.756	2.093	2.002	1-7/64	1.139	1.079	590
1-1/4	2	2.000	1.938	2.309	2.209	1-7/32	1.251	1.187	790

Note: Any company who Triangle Fastener Corporation contracts to produce this "TFC SPECIFIC" product gives up the right to produce, market, or sell this fastener for any other entity. The contracted company fully understands that all design and market information that TFC provides is the property of TFC, and cannot be used without written permission by TFC. COPYRIGHT 2006 TFC

DWG. NUMBER 082212A	REV	DWG. BY JES	APPROVED	REVISIONS			 TRIANGLE FASTENER CORPORATION TFC FASTENING SYSTEMS DESIGN CENTER 4661 HINCKLEY INDUSTRIAL PARKWAY CLEVELAND, OH 44109 PHONE: (216) 351-9933 / FAX: (216) 351-5008 www.trianglefastener.com	DESCRIPTION HEAVY HEX NUTS ASTM A563	DATE 8.20.12
CUSTOMER		CUSTOMER APPROVAL		NO.	WAS	DATE		MATERIAL HEAT TREATMENT Per ASTM A-325	FINISH CORROSION SPECIFICATION As required by customer
		DATE OF APPROVAL						PART WEIGHT	NOTES
Design information provided on this drawing is the property of Triangle Fastener Corporation, Pittsburgh, PA. Any use without written permission is prohibited.								PART NUMBER	PACKAGING Plain carton with TFC labeling

NUT SPECIFICATIONS

js082212

Grade Identification Marking	Specification ASTM A563 GRADE	Material	Nominal Size, In.	Proof Load Stress, ksi	Hardness Rockwell		See Note
					Min	Max	
	Grade O	Carbon Steel	1/4 - 1-1/2	69	B55	C32	2,3
	Grade A	Carbon Steel	1/4 - 1-1/2	90	B68	C32	2,3
	Grade B	Carbon Steel	1/4 - 1	120	B69	C32	2,3
			>1 - 1-1/2	105			
	Grade C	Carbon Steel, may be Quenched and Tempered	1/4 - 4	144	B78	C38	4
	Grade C3	Atmospheric Corrosion Resistant Steel, may be Quenched and Tempered	1/4 - 4	144	B78	38	4,6
	Grade D	Carbon Steel, may be Quenched and Tempered	1/4 - 4	150	B84	C38	5
	Grade DH	Carbon Steel, Quenched and Tempered	1/4 - 4	175	C24	C38	5
	Grade DH3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered	1/4 - 4	175	C24	C38	4,6

NOTES:

- In addition to the indicated grade marking, all grades, except A563 grades O, A, and B, must be marked for manufacturer identification.
- Nuts are not required to be marked unless specified by the purchaser. When marked, the identification marking shall be the grade letter O, A, or B.
- Properties shown are those of nonplated or noncoated coarse thread nuts.
- Properties shown are those of coarse thread heavy hex nuts.
- Properties shown are those of coarse thread heavy hex nuts. Other nuts styles and fine threads may apply.
- The nut manufacturer, at his option, may add other markings to indicate the use of atmospheric corrosion resistant steel.

GENERAL REQUIREMENTS

- Fasteners are to be produced to specification ASME B18.2.2 and ASTM A563 except where noted on this drawing.
- Shipment Approval / Sample Submission
 - 25-piece sample for each lot must be submitted for approval prior to release of a shipment.
 - Samples must be submitted along with the Certificate of Inspection Report to the following;

TFC QUALITY ASSURANCE CENTER
Pittsburgh, PA