

# Porteous Fastener Company

## Product Information Sheet

### Hex Nuts, Grade 5, Inch Series



- PFC Product Categories: 00206, 00207, 00208, & 00209.
- Typical Material: Low to Medium Carbon Steel (1008-1035) for sizes up to 1 inch (cold-formed). 1045 steel for sizes over 1 inch when hot-formed (China).
- Material and Mechanical Properties: Purchased to meet SAE J995 Grade 5.
- Dimensions: ASME/ANSI B18.2.2
- Zinc Plating: Purchased to meet ASTM F1941 FeZn3A
- Hardness: HRC 32 Maximum (will typically be HRB 70 min)
- Proof Load Strength: 120,000 PSI Minimum for sizes 1/4 through 1 UNC threads, 105,000 PSI for sizes 1 1/8 through 1 1/2 UNC threads; 109,000 PSI 1/4 through 1 UNF threads, and 94,000 PSI for sizes 1 1/8 through 1 1/2 UNF threads.
  - Proof load is defined as an axially-applied load using a bolt or mandrel that must be supported by a nut without evidence of thread stripping or rupture. The specifications do not include the breaking strength, or tensile strength of nuts.

Wrench / Socket Sizes - Hex Nuts							
Bolt Size	Socket Size	Bolt Size	Socket Size	Bolt Size	Socket Size	Bolt Size	Socket Size
1/4	7/16	9/16	13/16	1 1/8	1 11/16	2	3
5/16	1/2	5/8	15/16	1 1/4	1 7/8	2 1/4	3 3/8
3/8	9/16	3/4	1 1/8	1 3/8	2 1/16	2 1/2	3 3/4
7/16	5/8	7/8	1 5/16	1 1/2	2 1/4	2 3/4	4 1/8
1/2	3/4	1	1 1/2	1 3/4	2 5/8	3	4 1/2