

# Porteous Fastener Company

## Product Information Sheet

### Hex Nuts, Grade A, Inch Series



- PFC Product Categories: 00200 & 00201.
- Typical Material: Low Carbon Steel (1008 / 1010) 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 ASTM A563 Grade A.
- Dimensions: ASME/ANSI B18.2.2
- Zinc Plating: Purchased to meet ASTM F1941 FeZn3A
- Hot-Dip Galvanized: Purchased to meet ASTM A153.
  - HDG nuts are tapped oversize per ASTM A563.
- Hardness: HRB 68 – HRC 32
- Proof Load Strength: 90,000 PSI Minimum (68,000 PSI for HDG nuts)
  - 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 coupling 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