

Porteous Fastener Company

Product Information Sheet

Heavy Hex Nuts, Grade A, Inch Series



- PFC Product Category: 00210.
- 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.
- 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: 100,000 PSI (75,000 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.

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