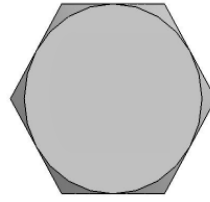


# SUBMITTAL

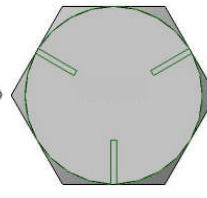
## GRADES 2, 5 & 8

Carbon Steel Grades 1 through 8

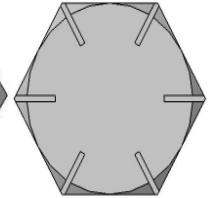
### Chemical Requirements



GR2



GR5



GR8

#### Grade 2

#### Grade 5

#### Grade 8

- |               |                  |                   |                   |
|---------------|------------------|-------------------|-------------------|
| • Carbon      | Min --- Max 0.55 | Min 0.28 Max 0.55 | Min 0.28 Max 0.55 |
| • Phosphorous | Min --- Max 0.05 | Min --- Max 0.05  | Min --- Max 0.04  |
| • Sulfur      | Min --- Max 0.06 | Min --- Max 0.06  | Min --- Max 0.05  |

### Mechanical Requirements

#### Grade 2

#### Grade 5

#### Grade 8

- |                          |                  |                 |                 |
|--------------------------|------------------|-----------------|-----------------|
| • Hardness Rockwell      | Min B70 Max B100 | Min C19 Max C34 | Min C33 MaxC39  |
| • Tensile strength (KSI) | Min 60 Max 74    | Min 105 Max 120 | Min 150 Max --- |
| • Proof Load (KSI)       | Min 33 Max 55    | Min 74 Max 85   | Min 120 Max --- |
| • Elongation             | 18               | 14              | 12              |

Hex Nuts Grade 2 ASTM A563    Hex Nuts Grade 5 ASTM A563    Hex Nuts Grade 8 ASTM A563

Black Plain

Zinc Plated

Hot Dip Galv

Tripac 2000 Blue

Buried

Submerged

Above Grade

Below Grade

Other

### Dimensional Data

- Unless otherwise specified, threads shall be the coarse thread series as specified in the latest issue of ANSI/ASME B1.1, page A-26.
- Having a class 2A tolerance.
- Bolts shall be hex bolts with dimensions as given in the latest issue of ANSI/ASME B 18.2.1, page C-1.
- Additional information can be found in SAE J429 and ASTM A563.

**TRIPAC**

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