

ROMAC INDUSTRIES, INC.

**400 AND 500 STYLE COUPLING
BOLT AND NUT "HSLA" MATERIAL DATA SHEET
INCLUDING "U" BOLTS**

SUBMITTAL INFORMATION

MATERIAL:

Bolt High Strength, Low-Alloy / Corrosion Resistant Steel, (Cor-Ten™), (Mayari- R™). Meets or exceeds ASTM A 588, Grade E. AWWA C111 composition specifications.
The material specifications of ASTM A-588 meets or exceeds ASTM A 307 Grade A.

Nuts High Strength, Low-Alloy / Corrosion Resistant Steel, (Cor-Ten™), (Mayari- R™). Meets or exceeds ASTM A563 Grade, C3, AWWA C111 composition specifications.
The material specifications of ASTM A 563 Grade C3 meets or exceeds ASTM A 563 Grade A.

**PHYSICAL
PROPERTIES:**

| | |
|-----------------------------|------------|
| Min. Yield Strength | 45,000 psi |
| Min. Elongation in 2" incr. | 20% |
| Min Tensile Strength | 70 ksi |

COMPOSITION:

| | |
|------------------------|-------|
| Max. Content: | |
| Carbon | .20% |
| Manganese | 1.25% |
| Sulfur | .05% |
| Min. Content: | |
| Nickel | .25% |
| Copper | .25% |
| Combined (Ni, Cu, Cr,) | 1.25% |

NOTE: The nickel, copper and chromium cause the high strength steel material to be corrosion resistant (also known as a weathering steel). This metal is recommended by the AWWA for rubber gasket joints for cast-iron pressure pipe and fittings. "U" bolts are galvanized coated.

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This information is based on the best data available at the date printed above, please check with Romac Engineering Department for any updates or changes.