

ASME SA387 Grade 11 is a grade specification for low alloy chromium-molybdenum steel sheets, plates and components made out of sheet metal, for use in fabrication of welded boilers and pressure vessels, designated for elevated temperature services. SA387 Grade 11 is further classified into tensile class 1 and class 2.



## Chemical Composition (1.25% Chromium, 0.5% Molybdenum Alloy Steel)

| Element | C    | Mn   | P     | S     | Si   | Cr   | Mo   |
|---------|------|------|-------|-------|------|------|------|
| Min     | 0.05 | 0.40 |       |       | 0.50 | 1.00 | 0.45 |
| Max     | 0.17 | 0.65 | 0.035 | 0.035 | 0.80 | 1.50 | 0.65 |

## Mechanical Properties

| Type                                   | Class 1             | Class 2              |
|--|---------------------|----------------------|
| Ultimate Tensile Strength, ksi (Mpa)   | 60 - 85 [415 - 585] | 75 - 100 [515 - 690] |
| 0.2% Yield strength, ksi (Mpa)         | 35 [240]            | 45 [310]             |
| % Elongation in 8 Inch (min)           | 19                  | 18                   |
| % Elongation in 2 Inch (min)           | 22                  | 22                   |
| Hardness HBW (max)                     | ...                 | ...                  |
| Minimum Tempering Temperature, °C (°F) | 1150 (620)          | 1150 (620)           |



## Products

Washers

Components

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