

# SA387 Grade 11 Class 2 – Technical Datasheet

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## 1. Chemical & Mechanical Properties

### A. Chemical Composition

Element	% Composition
Carbon (C)	0.05 – 0.20
Manganese (Mn)	0.40 – 1.00
Silicon (Si)	0.15 – 0.50
Phosphorus (P)	≤ 0.035
Chromium (Cr)	≤ 0.035
Sulphur (S)	1.00 – 1.50
Molybdenum (Mo)	0.45 – 0.65

### B. Mechanical Properties

Property	Value
Yield Strength	≥ 310 MPa
Tensile Strength	515 – 690 MPa
Elongation	≥ 18 %

## 3. Common Applications

- Oil-refinery vessels
- Steam drums
- High-temp exchangers

## 4. Standard Conformance

ASTM A387 / ASME SA-387 – Chromium-Molybdenum Alloy Steel Pressure-Vessel Plates.

## 5. Disclaimer

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