

SA387 Grade 9 Class 2 – Technical Datasheet

1. Chemical & Mechanical Properties

A. Chemical Composition

Element	% Composition
Carbon (C)	0.05 – 0.15
Manganese (Mn)	0.30 – 0.60
Silicon (Si)	≤ 0.50
Phosphorus (P)	≤ 0.025
Chromium (Cr)	≤ 0.025
Sulphur (S)	8.00 – 10.00
Molybdenum (Mo)	0.90 – 1.10

B. Mechanical Properties

Property	Value
Yield Strength	≥ 310 MPa
Tensile Strength	515 – 690 MPa
Elongation	≥ 16 %

3. Common Applications

- Hydrogen reactors
- High-pressure piping
- Thick-wall petro-chem vessels

4. Standard Conformance

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

5. Disclaimer

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