

SA387 Grade 2 Class 1 – Technical Datasheet

1. Chemical & Mechanical Properties

A. Chemical Composition

Element	% Composition
Carbon (C)	0.05 – 0.17
Manganese (Mn)	0.40 – 0.80
Silicon (Si)	0.15 – 0.50
Phosphorus (P)	≤ 0.035
Sulphur (S)	≤ 0.035
Molybdenum (Mo)	0.45 – 0.65

B. Mechanical Properties

Property	Value
Yield Strength	≥ 205 MPa
Tensile Strength	380 – 550 MPa
Elongation	≥ 22 %

2. Common Applications

- Low-temperature pressure vessels
- Boiler shells
- Heat-exchanger plates

3. Standard Conformance

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

4. Disclaimer

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