

SA387 Grade 5 Class 1 - Technical Datasheet

1. Chemical & Mechanical Properties

A. Chemical Composition

Element	% Composition
Carbon (C)	0.05 - 0.15
Manganese (Mn)	0.40 - 0.70
Silicon (Si)	≤ 0.50
Phosphorus (P)	≤ 0.035
Chromium (Cr)	≤ 0.035
Sulphur (S)	4.00 - 6.00
Molybdenum (Mo)	0.45 - 0.65

B. Mechanical Properties

Property	Value
Yield Strength	≥ 275 MPa
Tensile Strength	485 – 620 MPa
Elongation	≥ 20 %

2. Common Applications

- Reformer & cracker vessels
- High-temp process columns

3. Standard Conformance

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

4. Disclaimer

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