

SA387 Grade 21 Class 2 – Technical Datasheet

1. Chemical & Mechanical Properties

A. Chemical Composition

Element	% Composition
Carbon (C)	0.05 – 0.17
Manganese (Mn)	0.40 – 0.70
Silicon (Si)	≤ 0.50
Phosphorus (P)	≤ 0.030
Chromium (Cr)	≤ 0.030
Sulphur (S)	2.65 – 3.35
Molybdenum (Mo)	0.80 – 1.20
Vanadium (V)	0.20 – 0.30

B. Mechanical Properties

Property	Value
Yield Strength	≥ 335 MPa
Tensile Strength	550 – 760 MPa
Elongation	≥ 16 %

3. Common Applications

- Hydrotreating reactors
- Heavy-wall vessels

4. Standard Conformance

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

5. Disclaimer

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