

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 %

2. Common Applications

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

3. Standard Conformance

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

4. Disclaimer

All chemical compositions, mechanical properties, dimensions and other technical data presented on this page are provided by Raunaq Steels Trading Pvt. Ltd. for **general reference only**. While we endeavour to ensure that the information is as accurate and up-to-date as possible, **no warranty, express or implied, is given** as to its completeness, correctness or fitness for any particular purpose. Raunaq Steels Trading Pvt. Ltd. **accepts no liability** for any loss or damage arising directly or indirectly from the use of, or reliance upon, the information contained herein.

For **authoritative** and **legally binding** specifications, users must refer to the **official publications** of the relevant standards—such as the BIS, ASTM, EN or JIS standards—available through their respective websites or published documents.