



NAVGRAHA STEELS INC

Stockist & Supplier



SA 387 Gr 91 Cl 2

Alloy Steel Plates

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Introduction – What is SA 387 Gr 91 Cl 2?

SA 387 Grade 91 Class 2 is a high-strength Cr-Mo-V alloy steel designed for high-temperature, high-pressure service. Containing 9% Chromium, 1% Molybdenum, and Vanadium, this grade offers exceptional creep strength, oxidation resistance, and toughness for long-term elevated service. It conforms to ASTM A387 / ASME SA387 standards.

Mechanical Properties – SA 387 Gr 91 Cl 2

Property	Requirement
Tensile Strength	585–760 MPa
Yield Strength (min)	415 MPa
Elongation (min)	18%
Hardness (max)	250 HB

Chemical Composition – SA 387 Gr 91 Cl 2

Element	% (Typical)
Carbon (C)	0.08 – 0.12
Manganese (Mn)	0.30 – 0.60
Silicon (Si)	0.20 – 0.50
Chromium (Cr)	8.00 – 9.50
Molybdenum (Mo)	0.85 – 1.05
Vanadium (V)	0.18 – 0.25
Niobium (Nb)	0.06 – 0.10
Nitrogen (N)	0.03 – 0.07
Phosphorus (P)	≤ 0.020
Sulfur (S)	≤ 0.010

Delivery Condition & Heat Treatment

- Normalized and Tempered (N+T) – Standard for Class 2
- Long-term creep resistance under elevated pressure & temperature
- Optional Charpy impact testing at sub-zero temperatures

Standard Dimensions – SA 387 Gr 91 Cl 2

Parameter	Range
Thickness	6 – 120+ mm
Width	1500 – 3000 mm
Length	3000 – 13000 mm

Product Forms

- Plates – Primary supply form for boilers & refineries
- Cut-to-Size Sheets – CNC profiled with MTCs
- Fabricated Components – Beveled, drilled, machined

Applications Across Industries

- Thermal & nuclear power plant boilers
- Steam generators & headers
- Petrochemical reactors
- High-pressure piping & equipment
- Heat exchangers in ultra-supercritical plants

Buyer’s Checklist – SA 387 Gr 91 Cl 2

- ASTM A387 / ASME SA387 mention on MTC
- 9Cr-1Mo-V composition confirmation
- N+T heat treatment certification
- Third-Party Inspection (Lloyd’s, TÜV, SGS, BV, DNV)
- Export-ready packaging & markings

Why Buy SA 387 Gr 91 Cl 2 from Navgraha Steel INC?

- Ready stock in high-temp alloy steels
- Quick supply with processing support
- Mill Test Certificates (EN 10204 3.1) with traceability
- Strong export presence across GCC, Africa, Asia

Request Price & Datasheet

Looking for 16Mo3 Plates from
SAIL, AMNS, JSPL, Evonith?



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