



NAVGRAHA STEELS INC

Stockist & Supplier



SA 516 Gr 70 (485 MPa)

Plates, Sheets & Coils

Introduction – Why SA 516 Gr 70 (485 MPa)?

SA 516 Grade 70 is the highest strength grade in the SA 516 standard, widely used for boilers, pressure vessels, and refineries. The '485' reference comes from its minimum tensile strength in MPa, making it one of the most preferred grades for high-pressure equipment.

Mechanical Properties – SA 516 Gr 70 (485 MPa)

Property	Requirement
Tensile Strength	485–620 MPa (70–90 ksi)
Yield Strength (min)	260 MPa (38 ksi)
Elongation (min)	17% (200 mm) / 21% (50 mm)

Chemical Composition – SA 516 Gr 70 (485 MPa)

Element	% (Max / Typical)
Carbon (C)	0.26 – 0.31
Manganese (Mn)	0.85 – 1.20 (up to 1.30)
Silicon (Si)	0.15 – 0.40
Phosphorus (P)	≤ 0.035
Sulfur (S)	≤ 0.035

Delivery Condition & Testing

- As Rolled (AR)
- Normalized (N) – most common for boiler & refinery projects
- UT Testing – ASTM A578 / A435
- Impact Testing – CVN at project-specified temperature
- Third-Party Inspection – TÜV, Lloyd's, SGS, BV, DNV

Standard Dimensions – SA 516 Gr 70 (485 MPa)

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

Applications Across Industries

- Boilers & steam drums
- Refinery pressure vessels
- LNG storage tanks
- Petrochemical reactors
- Power generation units

Buyer’s Checklist – SA 516 Gr 70 (485 MPa)

- ASTM A516 / ASME SA516 Gr 70 mention
- Minimum tensile 485 MPa requirement
- Impact test report if required
- UT-tested plate if thickness > 40 mm
- TPI approval (if EPC-driven project)

Request Price & Datasheet

Looking for SA 516 Gr 60 (415 MPa) Plates,
Sheets & Coils from SAIL, AMNS, JSPL, Evonith?



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