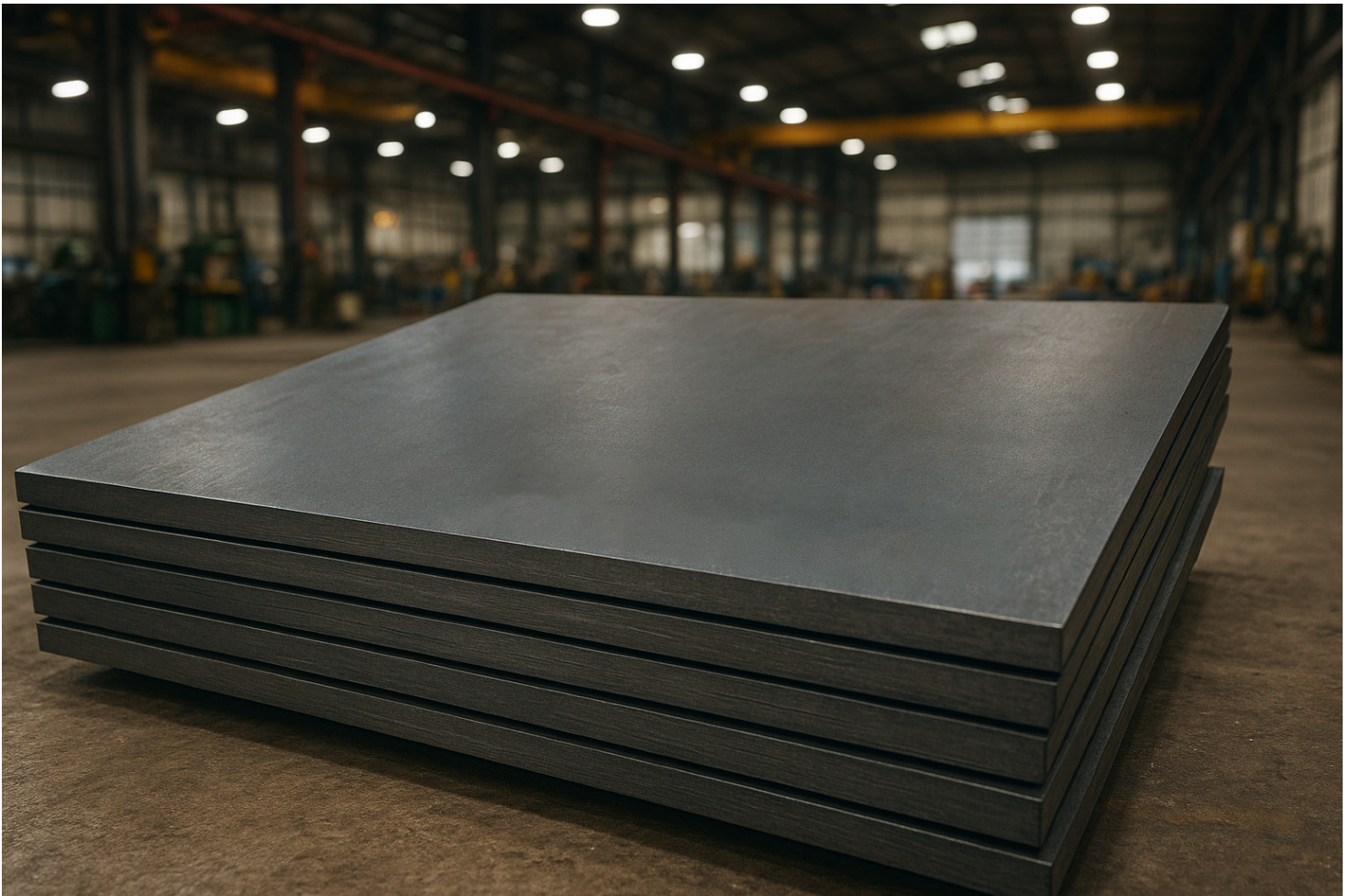




NAVGRAHA STEELS INC

Stockist & Supplier



Inconel 825

**Corrosion Resistant Alloy Plates,
Sheets & Coils**

+91-9619267263 | Reachus@navgrahasteelsinc.com | www.navgrahasteelsinc.com

Introduction – What is Inconel 825?

Inconel 825 is a nickel-iron-chromium alloy with molybdenum, copper, and titanium additions. It offers excellent resistance to sulfuric and phosphoric acids, stress corrosion cracking, and both oxidizing and reducing environments. Compared to Inconel 625, it provides better acid resistance but lower strength at very high temperatures. It conforms to ASTM B424 standards.

Mechanical Properties – Inconel 825

Property	Requirement
Tensile Strength	≥ 550 MPa
Yield Strength (0.2% offset)	≥ 220 MPa
Elongation	≥ 30%
Hardness	≤ 200 HB

Chemical Composition – Inconel 825

Element	% (Typical)
Nickel (Ni)	38.0 – 46.0
Iron (Fe)	Balance (~22%)
Chromium (Cr)	19.5 – 23.5
Molybdenum (Mo)	2.5 – 3.5
Copper (Cu)	1.5 – 3.0
Titanium (Ti)	0.6 – 1.2
Manganese (Mn)	≤ 1.0
Silicon (Si)	≤ 0.5
Carbon (C)	≤ 0.05
Sulfur (S)	≤ 0.03

Delivery Condition & Standards

- Supplied in Annealed (solution heat treated) condition
- Standards: ASTM B424 (plates, sheets & coils)
ASTM B163, ASTM B705
- Good weldability and formability

Standard Dimensions – Inconel 825

Parameter	Range
Thickness	1.6 – 50 mm
Width	1000 – 2500 mm
Length	2000 – 6000 mm
Coils	Custom slit widths available

Product Forms

- Plates – Corrosion resistant base material
- Sheets – Flexible industrial use
- Coils – Rolled & slit forms
- Fabricated Components – CNC profiled, cut-to-size

Applications Across Industries

- Sulfuric & phosphoric acid plants
- Pollution control scrubbers
- Oil & gas industry (tubing, exchangers)
- Marine & offshore equipment
- Nuclear fuel reprocessing

Buyer's Checklist – Inconel 825

- ASTM B424 / UNS N08825 mention on MTC
- Confirm annealed solution treatment
- Copper & titanium content verified
- Third-party inspection (Lloyd's, TÜV, SGS, BV, DNV)
- Export packaging & traceability

Why Buy Inconel 825 from Navgraha Steel INC?

- Large stock in plates, sheets & coils
- Fast dispatch with cutting & fabrication services
- Mill Test Certificates (EN 10204 3.1) traceable to heats
- Export-ready supply to GCC, Africa & Asia

Request Price & Datasheet

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



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