

Stainless Steel

S31700 (317) Sheet & Plate

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	317
US	S31700

A modified version of Type 316 stainless steel with high strength and corrosion resistance.

CHEMICAL COMPOSITION

ASTM A240 S31700 Sheet and Plate

Element	% Present
Carbon (C)	0.00 - 0.08
Chromium (Cr)	18.00 - 20.00
Nickel (Ni)	11.00 - 15.00
Manganese (Mn)	0.00 - 2.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.03
Silicon (Si)	0.00 - 0.75
Molybdenum (Mo)	3.00 - 4.00
Nitrogen (N)	0.00 - 0.10
Iron (Fe)	Balance

ALLOY DESIGNATIONS

- EN 1.4438

SUPPLIED FORMS

- Sheet
- Plate

APPLICATIONS

- Screens for marine and chemical applications
- Pulp and paper applications
- Marine components
- Food processing
- Seals and other components for the oil and gas industry

CHARACTERISTICS

- The most corrosion resistant stainless steel
- Highest tensile and creep strength properties at elevated temperatures
- Superior pitting resistance
- High stress to rupture ratio

MECHANICAL PROPERTIES

ASTM A240

Property	Value
Proof Stress	205 Min MPa
Tensile Strength	515 Min MPa
Elongation A50 mm	35 Min %

DISCLAIMER

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