

Stainless Steel

S31703 (317L) Sheet & Plate

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	317L
US	31703

A lowcarbon, high molybdenum austenitic stainless steel with a higher nickel alloy content than 316L.

CHEMICAL COMPOSITION

ASTM A240 S31703 Sheet and Plate

Element	% Present
Carbon (C)	0.00 - 0.03
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 1.4439

SUPPLIED FORMS

- Sheet
- Plate

APPLICATIONS

- Air Pollution control
- Chemical and petrochemical processing
- Explosives
- Food and beverage processing
- Petroleum refining
- Power generation-condensers
- Pulp and paper

CHARACTERISTICS

- Excellent corrosion resistance in a wide range of chemicals
- Good formability
- Good weldability

MECHANICAL PROPERTIES

ASTM A240 Sheet and Plate

Property	Value
Proof Stress	205 Min MPa
Tensile Strength	515 Min MPa
Elongation A50 mm	40 Min %

DISCLAIMER

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