



Dover Tubular Alloys

Trusted By Top Distributors Globally.

317L TUBING



317L INSTRUMENTATION TUBE

PRODUCT GRADES & FINISHES

- 317L / UNS S31703
- Bright Annealed

PRODUCT SPECIFICATIONS

- ASTM A213 / ASME SA213 AW

COMPLIANCE

- Domestic & AML
- NACE MRO103/0175
- Pressure Equipment Directive (PED)
- RoHS / ISO / EN 10204

PRODUCT SOURCING

- Domestic & DFARS

PRODUCT SIZE RANGE

- Outside diameter (OD) 1/4" OD - 1" OD
- Wall thickness .035w - .120w

GENERAL PROPERTIES

Alloy 317L is a molybdenum containing, low carbon austenitic stainless steel with increased additions of chromium, nickel, and molybdenum for better corrosion resistance and increased resistance to chemical attack for sulfurous, acetic, formic, citric, and chlorides. Due to its low carbon content, 317L also provides resistance to sensitization when welded and higher creep, stress to rupture, and tensile strength at elevated temperatures. It is non-magnetic in the annealed condition but may become slightly magnetic after welding.

CORROSION RESISTANCE

- Demonstrates superior corrosion resistance in difficult environments including a wide range of chemicals, especially in acidic chloride environments
- Excellent resistance in applications where contamination is desired to be kept to a minimum
- Low carbon content allows 317L to be highly resistant to intergranular corrosion
- Combats the tendency to pit when in contact with phosphorus acids, chlorides, bromides, and iodides

HEAT RESISTANCE

All chromium-nickel-molybdenum steels have excellent resistance to oxidation

INDUSTRIES

Oil & Gas, Petro-Chemical, Pulp & Paper, Textile, Nuclear Power Gen, Chemical Processing, Food & Beverage, Petroleum Refining

APPLICATIONS

- **Chemical plants:** Handling strong acids, such as sulfuric acid and hydrochloric acid, as well as in processes involving chlorine and other halogens.
- **Textile:** Used in equipment for handling acid dyes and other chemicals.
- **Pulp and paper:** Used in equipment exposed to bleaching solutions and other corrosive chemicals.
- **Offshore platforms:** Used in components exposed to seawater and other corrosive environments.
- **Refineries:** Used in equipment handling various chemicals and hydrocarbons.
- **Power plants:** Used in flue gas desulfurization (FGD) systems and other components exposed to corrosive gases.
- **Food & Beverage:** Used in equipment that comes into contact with products, especially in applications involving acidic or saline solutions.



Dover Tubular Alloys

Trusted By Top Distributors Globally.

Dover Tubular Alloys founded in 1983, is a true Master Distributor Of Stainless Steel & Aluminum Tube and Pipe. With a focus on superior customer service and value, our inventory includes more than 3,000 variations of tubing sourced from the world's leading mills.