

316L Stainless Steel Plate

ASTM A240

Characteristics

316 / 316L stainless steel plate provides more effective corrosion and pitting protection than 304 stainless steel due to increased levels of molybdenum and nickel in the alloy. It exhibits the same high strength, toughness, high temperature and high workability as 304 stainless alloys.

Applications

316 / 316L plate is used to manufacture products for applications that are exposed to salt water, acids such as sulfuric acid and chloride, petrochemicals and chemicals and high-heat such as engines and motors. Products include tanks, supports and frames, enclosures and housings, engine, motor and machinery components and parts.

Typical Chemical Properties

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|-------------------|-------|
| Carbon, Max % | 0.03 |
| Manganese, Max % | 2.00 |
| Phosphorus, Max % | 0.045 |
| Sulphur, Max % | 0.03 |
| Chromium, Max% | 18.0 |
| Nickel, Min% | 14.0 |
| Molybdenum, Max% | 3.0 |

Typical Mechanical Properties

| | |
|----------------------------|----|
| Tensile Strength ksi | 83 |
| Yield 2% Offset ksi | 38 |
| Elongation in 2" (50.80mm) | 50 |