MATERIAL DATA SHEET

316 Stainless Steel Hatch

Product Description

The 316 Stainless Steel Hatch is manufactured from AISI 316 austenitic stainless steel and is designed for corrosion-resistant access in marine, industrial, and architectural applications. The inclusion of molybdenum provides enhanced resistance to chlorides and aggressive environments.

Material Specification

Material Grade: AISI 316 Stainless Steel
Standards: ASTM A240 / A240M, ASTM A276, EN 10088

Chemical Composition (Typical)

Element	Weight %
Carbon (C)	≤ 0.08
Chromium (Cr)	16.0 – 18.0
Nickel (Ni)	10.0 – 14.0
Molybdenum (Mo)	2.0 – 3.0
Manganese (Mn)	≤ 2.0
Silicon (Si)	≤ 1.0
Phosphorus (P)	≤ 0.045
Sulfur (S)	≤ 0.03
Iron (Fe)	Balance

Mechanical Properties (Annealed)

Tensile Strength: ≥ 515 MPa
Yield Strength (0.2%): ≥ 205 MPa
Elongation: ≥ 40%
Hardness: ≤ 217 HB

Corrosion Resistance

Excellent resistance to pitting and crevice corrosion. Suitable for marine, coastal, chemical, and industrial environments.

Typical Applications

Marine access hatches, industrial access covers, architectural panels, food processing facilities, and wastewater treatment systems.