NICKEL ALLOYS

Advanced Materials. Engineered for Performance.

Hastelloy C276

Nickel Alloys | UNS: N10276 | EN: 2.4819

Nickel-molybdenum-chromium alloy with tungsten, regarded as the most universally corrosion resistant alloy available for both oxidising and reducing media.



Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- Resists both oxidising and reducing acids
- Outstanding pitting and crevice resistance

Available forms & sizes

Form	Size range
Plates	1.5 - 100 mm thk, up to 2500 mm wide
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 5S - SCH 160
Round Bars	6 - 500 mm dia
Flanges	1/2" - 48", 150# - 2500#
Fittings	1/2" - 48", SCH 10S - SCH 160

Chemical composition (%)

Element	Min	Max
Ni	-	Balance
Mo	15.0	17.0
Cr	14.5	16.5
W	3.0	4.5
Fe	4.0	7.0

Mechanical properties

Property	Value	Unit
Yield Strength (0.2%)	283 min	MPa
Tensile Strength	690 min	MPa

Property	Value	Unit
Elongation	40 min	%

Physical properties

Property	Value	Unit
Density	8.89	g/cm3
PREN	68	-

Standards

ASTM B575, ASTM B622, ASTM B574

Equivalent grades

2.4819, N10276, Alloy C276

Industries served

Power Generation, Chemical Processing, Pharmaceutical

Typical applications

- Flue gas desulphurisation scrubbers
- Sour gas processing equipment
- Pharmaceutical reactors
- Waste incineration systems

Live datasheet