



PRODUCT DATASHEET

# C276

### Grade

Nickel alloy. Hastelloy C-276, 2.4819 (UNS N10276, ASTM B574)

### Type

Solution treated

### Overview

Air pollution control, mixed acid and chemical processing. Pulp and paper industries. Pharmaceutical production. Industrial and municipal waste management. Oil and gas.

Composition	
Element	Weight%
Carbon	0.02 max
Silicon	0.08 max
Manganese	1 max
Phosphorus	0.03 max
Sulphur	0.03 max
Molybdenum	15 - 17
Chromium	14.5 - 16.5
Nickel	51 min
Manganese	1 max
Vanadium	0.35 max
Cobalt	2.5 max

### Mechanical Properties

Typical properties below are in the solution treated condition.

Property	Values
0.2% Yield Strength	41 KSI min (283 MPA min)
Ultimate Tensile Strength	100 KSI min (689 MPA min)
Elongation	40
Hardness	35 HRC max

Notes: Maximum hardness shown is based on compliance with NACE MRO175.

Good crevice, pitting and general corrosion and cracking resistance. Enhanced resistance in acid, hydrogen sulphide, carbon dioxide and chlorine/chloride containing environments.