

TECHNICAL DATA

Incoloy 825

Incoloy 825 fasteners offer the same high temperature stability in comparison to sister alloy 800, but with improved corrosion resistance. It particularly provides better protection from pitting and crevice corrosion, as well as general resistance to reducing environments. Incoloy 825 bolts are most useful in sulfuric and phosphoric acids, as well as sulfur-containing flue gases and sour gas wells. They also offer good resistance to oxidizing media (such as nitric acid) and to chloride environments.

Properties

Ultimate Tensile Strength	100 ksi
Yield Strength at 0.2%	47 ksi
Elongation %	45
Usable Temperature Limit	1400°F / 760°C

Key Benefits

- Excellent high temperature stability
- Improved corrosion resistance to Incoloy 800
- Especially resistant to sulfuric and phosphoric acids, flue gas environments and sour gas
- Good resistance to oxidizing media
- Good resistance to chlorides

Chemistry & Specifications

Incoloy 825	Ni	Fe	Cr	Mo	Cu	Ti	C	Mn	S	Si	Al
Min %	38	22	19.5	2.5	1.5	0.6	-	-	-	-	-
Max %	46	-	23.5	3.5	3	1.2	0.05	1	0.03	0.5	0.2

SPECIFICATIONS: UNS N08825, BS 3076NA16, ASTM B 425, ASTM B 564, ASME SB 425, ASME SB 564, ASME Code Case N-572, DIN 17752, DIN 17753, DIN 17754, VdTÜV 432, ISO 9723, ISO 9724, ISO 9725, Werkstoff Nr 2.4858

Material Data

