

## Alloy 825

**Chemical Properties**

Element	Chemical Composition %
Carbon (C)	0.05 max
Silicon (Si)	0.5 max
Manganese (Mn)	1.0 max
Sulphur (S)	0.03 max
Nickel (Ni)	38.0 - 46.0
Chromium (Cr)	19.5 - 23.5
Molybdenum (Mo)	2.5 - 3.5
Copper (Cu)	1.5 - 3.0
Iron (Fe)	22.0 max

**Mechanical Properties**

Property	Value
Ultimate Tensile Strength (N/mm <sup>2</sup> )	586
0.2% Proof Stress (N/mm <sup>2</sup> )	241
Elongation (%)	30

NACE MR0175 limits the hardness to 35 HRC max

**Disclaimer**

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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