

Alloy 625

(UNS N06625)

Availability:

Welded Pipe: 1/2" - 8"
Butt-Weld Fittings: 1/2" - 8"
Flanges: 1/2" - 8"
Bar: 1" - 4 1/2"

Specifications:

ASTM B443, B705, B366, B446
B564

ASME SB443, SB705, SB366
SB446, SB564

Description:

Alloy 625 is a nickel-chromium alloy used for its high strength, excellent fabricability and outstanding corrosion resistance. Service temperatures range from cryogenic to 1800° F. Alloy 625 strength is derived from the stiffening effect of molybdenum so that precipitation-hardening treatments are not required. This combination of elements also is responsible for superior resistance to a wide range of corrosive environments of unusual severity, as well as to high temperature effects such as oxidation and carburization.

Typical Applications:

- Used for structures in contact with seawater and subject to high mechanical stress
- Flue gas scrubber components
- Chimney linings
- Superphosphoric acid production equipment
- Sour gas production tubes
- Offshore industry, marine equipment


Tensile Requirements:

Tensile Strength Yield Strength
(KSI) = 120 - 150 (KSI) = 60 - 95

KSI can be converted to MPA (Megapascals) by multiplying by 6.895.

Grade 1 - Chemical Composition %

C	Cr	Fe	Ni	Al	Ti	Mo	Cb + Ta	Mn	Si	P	S	Co
MAX		MAX	MIN	MAX	MAX			MAX	MAX	MAX	MAX	MAX
0.10	20.0 - 23.0	5.0	58.0	0.40	0.40	8.00 - 10.00	3.15 - 4.15	0.50	0.50	0.015	0.015	1.0

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