

# ALLOY 625

## APPLICABLE SPECIFICATIONS

ASTM B446/B564, UNS N06625, W2.4856

A nickel chromium alloy, exhibiting excellent corrosion resistance in the annealed condition. Recognised for its superior weldability, it is extensively used in the manufacture of critical parts.

## TYPICAL APPLICATIONS

Sealing products, flanges & hubs, choke valves, valve internals.

## CHEMICAL ANALYSIS RANGE (WT%)

Ni	58.00 Min	C	0.10 Max	Mn	0.50 Max
Cr	20.00 – 23.00	Al	0.40 Max	P	0.015 Max
Fe	5.0 Max	Ti	0.40 Max	S	0.015 Max
Mo	8.00 – 10.00	Nb(Cb)+TA	3.15 – 4.15		
Co	1.00 Max	Si	0.50 Max		

## HEAT TREATMENT

SQA bar stock is in the annealed condition. Material may be supplied solution annealed (or aged from either of these states) upon request.

## TYPICAL MECHANICAL PROPERTIES IN ANNEALED CONDITION

	Section size up to & including 4"	Section above 4"
0.2% Yield Strength	60000 PSI Min	50000 PSI Min
Tensile Strength	120000 PSI Min	110000 PSI Min
Elongation	18% Min	18% Min
Reduction of Area	35% Min	35% Min
Hardness	35HRC Max	35HRC Max
Charpy V Notch @ -60 Deg C	27/19 Joules	27/19 Joules

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