## **Technical datasheet**

Alloy 625 / W-Nr. 2.4856

A nickel-chromium-molybdenum alloy strengthened by additions of niobium Alloy 625 combines excellent corrosion resistance in a wide range of environments with good mechanical properties and elevated temperature strength

Available products								
<b>Product form</b> Sheet/plate Bar Tube/pipe			Size range from 0.5 mm thickness 8.0 mm diameter 6.0 mm outside diameter			er	Size range to 12.0 mm thickness 130.0 mm diameter 219.1 mm outside diameter	
Chemical composition (%)								
<b>Ni</b> 58.0 min	<b>Cr</b> 20.0-23.0	<b>Mo</b> 8.0-10.0	<b>Nb</b> 3.15-4.15	<b>Fe</b> 5.0 r	nax	<b>AI</b> 0.4 max	<b>Ti</b> 0.4 max	<b>C</b> 0.1 max
Major spe	cifications							
ASTM B443, B444, B446, B564, B829 AMS 5559, 5666, 5869					UNS N06625 DIN 17750, 17751, 17752			
Physical properties								
Density Melting rang		44 g/cm <sup>3</sup> 290-1350°C						
Mechanical properties – typical room temperature properties								
Yield streng Tensile stre Elongation	,	0 MPa 0 MPa %						

## **Key attributes**

Alloy 625 is very versatile and is used for its high strength and excellent corrosion resistance in a wide range of applications and service conditions.

In sea water and brackish waters Alloy 625 is resistant to localised forms of attack such as pitting and crevice corrosion. It has high resistance to corrosion by mineral acids such as nitric, phosphoric, sulphuric and hydrochloric acids as well as alkalis and organic acids. Owing to its high nickel content Alloy 625 is immune to chloride-ion stress corrosion cracking. At high temperatures it has good resistance to oxidation and scaling.

Alloy 625 has excellent forming and welding characteristics and can be readily formed by cold working. Please contact us for further details on forming, fabrication and welding consumables.

## Applications

Gaskets and seals Ducting and exhaust systems Bellows and expansion joints Furnace equipment Hydraulic line tubing Piping systems Fittings, flanges and valves

Do you require further information or a quotation? Please contact us... info@bibusmetals.com www.bibusmetals.com

