## **Technical datasheet**

Alloy A-286 / W-Nr. 1.4980

Also known as Grade 660, Alloy A-286 is an age-hardenable iron-nickel-chromium alloy with good mechanical properties and oxidation resistance at elevated temperatures used for turbine components and high strength fastener applications

Available products				
<b>Product form</b> Bar	<b>Size range</b> 12.7 mm dia		Size range to 127 mm diameter	
Chemical composition (%)				
NiCr24.0-27.013.5-16.0	MoTi01.0-1.51.90-2.35	MnSi2.0 max1.0 max	AIFeC0.35 maxBalance0.08 max	
Major specifications				
AMS 5525, 5858, 5726, 5731, 5732, 5734, 5737, 5804, 5853 ASTM A453, A638 UNS S66286				
Physical properties				
	•		Magnetic permeability 1.007 in the aged condition	
Mechanical properties – typical room temperature properties				
Tensile strength	ndition 275 MPa 620 MPa 40 %	Age hardened co Yield strength Tensile strength Elongation	690 MPa	

## Key attributes

In the age-hardened condition Alloy A-286 has high room temperature strength and maintains good strength at elevated temperatures up to ~700°C. It also has excellent creep strength and these mechanical properties, combined with its oxidation resistance allows A-286 to find use in a wide range of applications where high strength, excellent creep strength and good corrosion resistance are required. Applications include turbine components and high strength, high temperature fasteners. Alloy A-286 is also used in the oil and gas industry both in high temperature applications but also cryogenic applications and where non-magnetic properties are required.

Alloy 600 is highly fabricable and is readily formed by either hot or cold working processes. It is machinable and can be welded by conventional processes and procedures. Please contact us for further details on forming, fabrication and welding consumables.

## Applications

Aero and industrial gas turbine components Automotive engine fasteners Manifold components Offshore/oil and gas industry fasteners Cryogenic and non-magnetic applications

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

