

## VBC Alloy 4782 Nicrobraz 30/Amdry 100

Designation	<b>AMS 4782</b>	Issued: July/14	MSRR: 9500/116	AMS: 4782F
		Revision: 00		
Cross Reference/ Conformance Specifications	AMS 4782 BS EN 1044 NI105 AWS A5.8 BNi-5 MSRR 9500/116 General Electric B50TF81	BS EN ISO 17672:2010 Ni 650 UNS Number N99650 ISO 3677 B-Ni71CrSi-1080/1135 JIS BNi-5 Omat 3/117 - 3/117A - 3/117B - 3/117C - 3/117D		
Description	Nickel based braze alloy for high temperature applications			
Temperatures	Solidus: 1080°C	Liquidus: 1135°C	Brazing Range: 1150 - 1205°C	
Materials To Be Brazed, Applications and Advice	Superalloys and stainless steels. Suitable for nuclear applications. Suitable for thin walled components such as honeycomb and heat exchangers. Excellent high temperature strength (up to 1038°C service conditions) Free flowing braze alloy. Good oxidation and corrosion resistance. Good ductility. Recommended Gap size: 0.012 – 0.1mm (0.0005 – 0.004") Vacuum brazing recommended, otherwise pure dry Hydrogen.			
Chemical Composition WT%	Nickel – Balance	Cobalt – 0.1% max		
	Chromium – 18.5 – 19.5%	Titanium – 0.05% max		
	Silicon – 9.75 – 10.5%	Aluminium – 0.05% max		
	Iron – 0.5% max	Boron – 0.05% max		
	Carbon – 0.1% max	Selenium – 0.005% max		
	Phosphorous – 0.02% max			
	Sulphur – 0.02% max			
Physical Properties	Density - 7.65 g/cm <sup>3</sup> Spheroidal morphology			
Forms of Supply	Powder Paste Tape			

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