

## VBC Alloy 4775 Microbraz 125

Designation	<b>Microbraz 125</b>		Issued: Jan/15	MSRR: 9500/103	AMS: 4775 J
			Revision: 00		
Cross Reference/ Conformance Specifications	AMS 4775 J BS EN 1044 Ni101 AWS A5.8 BNi-1 MSRR 9500/103		BS EN ISO 17672:2010 Ni 600 UNS Number N99600 Omat 3/182 - 3/182B		
Description	Nickel base braze alloy				
Temperatures	Solidus: 977°C		Liquidus: 1038°C		Brazing Range: 1065 - 1205°C
Materials To Be Brazed, Applications and Advice	Suitable for brazing nickel, chromium and iron base materials. Typical applications include highly stressed sheet metal components, jet engine parts and components subjected to corrosive environments. Good flow properties. Tendency to erode base metal hence thin sections should be brazed at low end of brazing range, rapid heating/cooling cycle and with minimum alloy. Recommended gap size: 0.05mm – 0.12mm				
Chemical Composition WT%	Carbon – 0.60 – 0.90%		Cobalt – 0.10% max		
	Silicon – 4.0 – 5.0%		Titanium – 0.05% max		
	Phosphorous – 0.02% max		Aluminium – 0.05% max		
	Sulphur – 0.02% max		Selenium – 0.005% max		
	Chromium – 13.0 – 15.0%		Zirconium – 0.05% max		
	Boron – 2.75 – 3.5%		Nickel –Balance		
	Iron – 4.0 – 5.0%				
Physical Properties	Density 7.75 gm/cm <sup>3</sup>				
Forms of Supply	Powder Paste				
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