VBC Alloy 9247
Mar M 247

Designation and Description	Nickel Based Superalloy	Issued: Nov/2016 Revision: 00	MSRR: NA	AMS:NA
Cross Reference/ Conformance Specification	Manufacturers Own EMS 55447			
Metallurgical Background Information	VBC Alloy 9947 is a nickel-base, vacuum melted, cast superalloy which has good creep and oxidation resistance, and is used in applications where high surface stability is required. It can be also used at very high temperatures and severe mechanical stress.			
Materials To Be Welded, Applications and Advice	Used to weld materials of similar composition. Used in turbine components Directionally solidified. Excellent high temperature properties, creep resistant			

Wire Chemistry WT% (as per AWS)	
Nickel – Balance	Molybdenum – 0.7%
Cobalt – 10%	Aluminium – 5.5%
Chromium – 8.2%	Tantalum – 3%
Tungsten – 10%	Carbon – 0.16%
Titanium – 1%	Hafnium – 1.5%

Weld Properties	Density – 7.8g/cm^3
Sizes and Forms of Supply	Straight Length: 2.5 kg Packs 36” / 914mm lengths Flag tagged 0.8 – 1.6mm diameter

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