



## VBC Alloy 0075 Titanium 829

Designation and Description	<b>Titanium 829</b>	Issued: June/2018 Revision: 00	MSRR: 9500/78	AMS:NA
Cross Reference/ Conformance Specification	MSRR 9500/75 Omat 3/217	IMI 829 MSRR 8648 (Ref)		
Metallurgical Background Information	VBC Alloy 0075 is a near alpha alloy but includes both alpha and beta stabilizer alloying elements. Cast and drawn with a proprietary cleaned surface			
Materials To Be Welded, Applications and Advice	VBC Alloy 0075 has been developed for gas turbine engine components operating at up to 500°C. It has high strength, high temperature creep resistance and good weldability. VBC Alloy 0075 is used to salvage MRO Weld components of similar composition in high performance compressors in gas turbine engines.			
Wire Chemistry WT% (as per AWS)	Titanium – Balance	Silicon – 0.2 – 0.5%		
	Aluminium – 5.2 – 5.7%	Carbon – 0.08% max		
	Tin – 3.0 – 4.0%	Oxygen – 0.09 – 0.15%		
	Zirconium – 2.5 – 3.5%	Nitrogen – 0.3% max		
	Niobium – 0.7 – 1.3%	Hydrogen – 0.006% max		
	Molybdenum – 0.2 – 0.35%	Others (Total) – 0.2% max		
Weld Properties	Adequately match properties of base material of similar composition			
Sizes and Forms of Supply	Straight Length: 2.2 kg Packs 36" / 914mm lengths 18"/457mm lengths Wide range of diameters Flag tagged	Spooled Wire: Precision layer wound with controlled cast and helix 300mm diameter standard Wide range of diameters		
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