

VBC Alloy 9110 ER 1100					
Designation and Description	ER1100		Issued: 09/2015 Revision: 00	MSRR: NA	AMS: 4180F
Cross Reference/ Conformance Specification	ASTM B 211 AMS 4180 BS EN ISO 18273:2004 Al 1100 Al99.0Cu	AWS A5.10/A5.10M:1999 ER1100 R1100 UNS Number A91100 AA1100			
Metallurgical Background Information	Alloy 4043 is a solid welding wire produced conventionally and surface cleaned to remove standard metal working lubricants. It is micro strengthened with solid solution elements and is non-heat treatable. It is highly resistant to chemical attack and weathering				
Materials To Be Welded, Applications and Advice	It is used for welding base metals of similar composition. Easily welded. Anodizing gives a good bright finish. Gives a ductile joint. Used in food handling equipment and heat exchangers. Use clean wire and clean components to avoid hydrogen induced porosity. Completely remove any lubricants, grease prior to welding.				
Wire Chemistry WT% (as per AMS)	Aluminium – Balance		Zinc – 0.10% max		
	Copper – 0.05 – 0.20%		Other Elements (each) – 0.05% max		
	Silicon – 0.95% Si +Fe max		Other Elements (total) – 0.15% max		
	Manganese – 0.05% max				
Weld Properties	Density 2.71gm/cm ³				
Sizes and Forms of Supply	Straight Length: 2.5 kg Packs 36" / 914mm lengths Flag tagged (Double tagging and other lengths on request)		Spoiled Wire: Precision layer wound with controlled cast and helix 300mm diameter standard		
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