



## WB718M MIG WELDING WIRE

Classifications	AWS A5.14/A5.14M: ERNiFeCr-2    UNS: N07718										
Product Description	WB718M is a MIG wire for the welding nickel base alloys, overlaying carbon steels and combinations of both.										
Applications	<p>WB718M is mainly used for high strength aircraft components and liquid rocket components involving cryogenic temperatures. Excellent pitting resistance. Typical materials to be welded: Alloys 718, 706 and X-750</p> <p>This alloy is commonly used in the age hardened condition to increase strength.</p> <p>Typical Age Hardening Procedure (AWS A5.14) 720°C for 8 Hrs &gt; Furnace Cooled @ 56°C per Hr to 620°C &gt; Held for 8 Hrs &gt; Air Cooled.</p>										
All-Weld Metal Composition (Wt. %)	Ni	C	Mn	Fe	S	Si	P	Cr	Al	Ti	
min.	50.0	-	-	-	-	-	-	17.0	0.20	0.65	
max.	55.0	0.08	0.35	Bal.	0.015	0.35	0.015	21.0	0.80	1.15	
	Nb+Ta	Mo	Co	Cu	Other						
min.	4.75	2.80	-	-	-						
max.	5.50	3.30	-	0.30	0.50						
Typical All-Weld Metal Mechanical Properties	Ultimate Tensile Strength					MPa	1200*				
	0.2% Proof Stress					MPa	-				
	Elongation on 4D					%	40				
	Charpy Vee Impact @ -196°C					Joules	100				
	Age Hardened Condition*										

<b>Wire Dia. (mm)</b>		0.6mm	0.8mm	1.0mm	1.2mm	1.6mm	2.4mm	3.2mm
<b>Current Range (Amps)</b>	<b>min.</b>	-	-	150	180	200	-	-
	<b>max.</b>	-	-	200	240	260	-	-
<b>Volt Range (Volts)</b>	<b>min.</b>	-	-	25	26	28	-	-
	<b>max.</b>	-	-	29	32	33	-	-
<b>Packaging Information</b>								
<b>Kg Per Tube</b>		-	-	15.0	15.0	15.0	-	-
<b>Storage</b>		<b>Storage</b> It is recommended that the WB range of wires are stored in a dry heated store at a minimum temperature of 18°C, and a maximum relative humidity of 60%.						
<b>Gases</b>		<b>Gas</b> 75% Ar / 25% He			<b>Flow Rate</b> 12-16 L/min			

### Current Conditions DC- and Welding Positions

