

WESTBROOK

WELDING ALLOYS LTD.

ALLOY 4043 WELD DATA SHEET

TYPICAL APPLICATIONS

- Welding Filler Wire
- Spray and Flame Metallizing Wire

GENERAL INFORMATION

- Trade designation: ALMIGWELD and ALTIGWELD
- Non-Heat treatable
- Similar to AISi5 (Germany), BS N21 (United Kingdom)
- ISO designation: AISi5
- Principle alloying elements: Silicon
- Applicable specifications: ANSI/AWS A5.10 (ER & R), AMS 4190

WELDING APPROVALS

- Lloyd's Register

TYPICAL PROPERTIES

Melting range: 1065 - 1170°F
Conductivity: 42% IACS (-O)
Density: 0.097 lbs./cu. in.

Resistance to corrosion: B(Gen) A(SCC)
Anodize Color: Gray

CHEMISTRY

<u>SILICON</u>	<u>IRON</u>	<u>COPPER</u>	<u>MANGANESE</u>	<u>MAGNESIUM</u>	<u>CHROMIUM</u>	<u>ZINC</u>	<u>TITANIUM</u>	<u>BERYLLIUM</u>	<u>OTHERS</u>		<u>ALUM</u>
									<u>EACH</u>	<u>TOTAL</u>	<u>REM</u>
4.5-6.0	0.8	0.30	0.05	0.05	---	0.10	0.20	0.0003	0.05	0.15	

NOTE: SINGLE VALUES ARE MAXIMUM UNLESS OTHERWISE NOTED.

ALLOY CHARACTERISTICS

ALLOY 4043 IS ONE OF THE OLDEST AND MOST WIDELY USED WELDING AND BRAZING ALLOYS. ALMIGWELD AND ALTIGWELD 4043 CAN BE CLASSIFIED AS A GENERAL PURPOSE TYPE FILLER ALLOY. THE SILICON ADDITIONS RESULT IN IMPROVED FLUIDITY (WETTING ACTION) TO MAKE THE ALLOY A PREFERRED CHOICE BY WELDERS. THE ALLOY IS LESS SENSITIVE TO WELD CRACKING AND PRODUCES BRIGHTER, ALMOST SMUT FREE WELDS.



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