

WESTBROOK

WELDING ALLOYS LTD.

ALLOY 5356 WELD DATA SHEET

TYPICAL APPLICATIONS

- Welding Filler Wire
- Nail Wire

GENERAL INFORMATION

- Trade designation: ALMIGWELD and ALTIGWELD
- Non-Heat treatable
- Similar to AlMg5 (DIN)
- ISO designation: AlMg5Cr(A)
- Principle alloying elements: Magnesium, Manganese, Chromium, Titanium
- Applicable specifications: ANSI/AWS A5.10 (ER & R)

WELDING APPROVALS

- Lloyd's Register

MANUFACTURED IN SWITZERLAND

TYPICAL PROPERTIES

Melting range: 1060 - 1175°F

Conductivity: 29% IACS (-O)
27% IACS (-H18)

Density: 0.096 lbs./cu. in.

Resistance to corrosion: A(Gen) C(SCC)

Hardness (BHN): 105 (-H18)

Anodize Color: White

CHEMISTRY

SILICON	IRON	COPPER	MANGANESE	MAGNESIUM	CHROMIUM	ZINC	TITANIUM	BERYLLIUM	OTHERS		ALUM REM
									EACH	TOTAL	
0.25	0.40	0.10	0.05-0.20	4.5-5.5	0.05-0.20	0.10	0.06-0.20	0.0003	0.05	0.15	

NOTE: SINGLE VALUES ARE MAXIMUM UNLESS OTHERWISE NOTED.

ALLOY CHARACTERISTICS

A CHARACTERISTIC OF THE 5XXX SERIES OF ALLOYS IS THEIR SUSCEPTIBILITY TO STRESS CORROSION CRACKING WHEN THE WELD POOL CHEMISTRY IS GREATER THAN 3% MAGNESIUM AND THERE IS EXPOSURE TO PROLONGED TEMPERATURES IN EXCESS OF 150°F. SPECIAL ALLOYS AND TEMPERS ARE OFTEN REQUIRED TO OVERCOME THIS PROBLEM. CONTACT ALCOTEC WIRE CORPORATION FOR ASSISTANCE IN ALLOY AND TEMPER SELECTION WHEN ELEVATED TEMPERATURE SERVICE IS A CONCERN.



#302, 3rd Floor, Lucky Paradise, 22nd Cross, 3rd Block,
Jayanagar, Bangalore - 560 011
Phone (91 80) 26650687, 26548573 Fax (91-80) 26636961
email: mail@paramountweldtrode.com / srinivasanmk@yahoo.com
www.paramountweldtrode.com

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