

SuperGlaze® 5183

Key Features

- Designed to meet the higher tensile strength requirements of high magnesium alloys
- Excellent feedability and consistent welding performance
- Excellent corrosion resistance ideal for ship building and marine applications

Conformances

AWS A5.10/A5.10M: ER5183

Lloyds Register: WC/I-1 S

Typical Applications

- Cryogenic tanks
- Welding 5083 and 5654 alloy grades
- High strength applications e.g bicycle frames, marine fabrication and repair

Welding Positions



Shielding Gas

- 100% Argon
- Argon / Helium mixtures
- Flow rate 15-25 L/min

Diameter / Packaging / Settings

Diameter mm	Part Number	Packaging	WFS ipm	Voltage volts	Approx. Current amps	CTWD mm
0.9	EDS28435	Spool S300 7.26kg	500-700	23-27	100-160	10-15
1.6	EDS28438	Spool S300 7.26kg	300-450	23-27	180-300	13-20

Mechanical Properties - As required per AWS A5.10

	Yield Strength MPa	Tensile Strength MPa	Elongation %
Requirements - AWS ER5183	Not specified	Not specified	Not specified
Typical Results - As Welded with I1 gas	140	300	30

Wire Composition

	%Al	%Mn	%Si	%Mg	%Cr
Typical Results	Bal	0.6	0.05	4.9	0.07
	%Zn	%Fe	%Ti	%Cu	%Be
Typical Results	0.01	0.12	0.07	0.001	≤0.0003