

Oxford[®] ALLOYS, Inc.

Supplier of Welding Alloys

Aluminum TIG & MIG Wire

Oxford Alloy[®] 5183

SPECIFICATIONS

AWS A5.10
ASME SFA 5.10

CLASSIFICATIONS

AWS ER5183
UNS A95183

DESCRIPTION / APPLICATION

Oxford Alloy ER5183 can be used for joining and overlay processing of similar grades containing 4.5% magnesium. Common uses include pressure vessels, ship building, and boilers. The post-anodizing color tint of the weld area is gray.

AWS Chemical Composition						
Si	Fe	Cu	Mn	Mg	Cr	Zn
0.40 max	0.40 max	0.10 max	0.05 -1.0	4.30- 5.20	0.05- 0.25	0.25 max
Al	Be	Ti	OEE	OET		
Bal	.0003 max	0.15 max	0.05 max	0.15 max		

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 275 MPa

Yield strength: 125 MPa

Elongation: 17%

FORMS & DIAMETERS AVAILABLE		
FORM	DIAMETER	PACKAGING
GTAW	1/16" (1.6mm)	914mm length / 5 kg tubes
GTAW	3/32" (2.4mm)	914mm length / 5 kg tubes
GTAW	1/8" (3.2mm)	914mm length / 5 kg tubes
GMAW	.035 (0.9mm)	S300 spool / 7 kgs
GMAW	.045 (1.2mm)	S300 spool / 7 kgs
GMAW	1/16" (1.6mm)	S300 spool / 7 kgs



Data contained in this publication are typical of the products and properties described, but are not suitable for specifications. Certified Material Test Certificates (CMTR) and Material Safety Data Sheets (MSDS) are available at www.oxfordalloys.com.

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