

ER5183

MIG and TIG wire for aluminium

Product name	IABCO ER5183
Classification EN ISO	18273: S Al 5183 - AlMg4.5Mn0.7(A)
Material No.	3.3548
Classification AWS	A5.10: ER5183
Approvals	-
Applications	ER5183 is used for welding AlMg alloys where strength, toughness and corrosion resistance (particularly to seawater) are important. ER5183 has high as-welded strength.
Base materials	5083, 5654. AlMg5, AlMg4.5Mn, AlZn4.5Mg1. 3.3547, 3.3555.
Typical analysis of wire, weight %	Al: Balance Si: 0.1 Mn: 0.6 Mg: 4.9 Cr: 0.1 Fe: 0.1
Typical procedure ⁽¹⁾	Weld joint cleanliness is important. Preheat: Not required for most applications, thick joints will benefit from preheat of ~150°C. PWHT: Not required for most applications.
Mechanical properties of weld deposit ⁽²⁾	0.2% proof stress, Rp0.2%: 125MPa. Tensile strength, Rm: 275MPa. Elongation, 4d/5d: 17%.
Other products	-

Notes (1) Application codes and project specifications should always be referred to for specific requirements.

(2) Actual mechanical properties will be dependent on specific welding procedure (including shielding gas, flux, PWHT etc) and should always be confirmed by approval of an appropriate welding procedure.