

ER5556

MIG/GMAW and TIG/GTAW wire for aluminium

Product name	IABCO ER5556
Classification EN ISO	18273: S Al 5556A - AlMg5Mn1(A)
Material No.	-
Classification AWS	A5.10: ER5556
Approvals	-
Applications	ER5556 is generally used for applications requiring higher strength when welding 5XXX series alloys. Applications are found in the shipbuilding, automotive, aerospace, and railway industries.
Base materials	5083, 5456, 5654. AlMg5, AlMg4.5Mn, AlZn4.5Mg1. 3.3547, 3.3555.
Typical analysis of wire, weight %	Al: Balance Si: 0.1 Mn: 0.7 Mg: 5.2 Cr: 0.1 Ti: 0.1 Fe: 0.1
Typical procedure ⁽¹⁾	Weld joint cleanliness is important. Preheat: Not required for most applications. Interpass: 150°C. PWHT: Not required for most applications.
Mechanical properties of weld deposit ⁽²⁾	0.2% proof stress, Rp0.2%: 130MPa. Tensile strength, Rm: 285MPa. Elongation, 4d/5d: 16%.
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.