

ER1050

MIG and TIG wire for aluminium

Product name	IABCO ER1050
Classification EN ISO	18273: Nearest S Al 1070 (Al99.7)
Material No.	3.0259
Classification AWS	A5.10: Nearest ER1100
Approvals	-
Applications	IABCO ER1050 is a high purity aluminium filler wire used for welding pure aluminium base materials. Pure aluminium is soft and has good ductility and formability, with good resistance to chemical attack and weathering. The weld metal also provides a good appearance following anodising.
Base materials	1100, 3003. Al99.0, Al99.5, Al99.7. 3.0205, 3.0255, 3.0275.
Typical analysis of wire, weight %	Al: 99.7 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%: 30MPa. Tensile strength, Rm: 70MPa. Elongation, 4d/5d: 30%.
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.