

IABCO 4043

MIG/GMAW and TIG/GTAW wire for aluminium

Product name	IABCO 4043
Classification EN ISO	18273: S Al 4043 (AlSi5)
Material No.	3.2245
Classification AWS	A5.10: ER4043
Approvals	CE.
Applications	IABCO 4043 is a 5%Si aluminium filler wire. The Si containing wires should not be used to weld the 5XXX series alloys as they will form brittle Mg ₂ Si intermetallic. The ER4043 wire is also not desirable for components that will be subsequently anodised as the IABCO 4043 weld metal will anodise to a dark grey colour.
Base materials	1100, 3003, 6061, 6063. AlMgSi1, AlMg1SiCu. 3.2315, 3.32.11.
Typical analysis of wire, weight %	Al: Balance Si: 5.0 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%: 70MPa. Tensile strength, Rm: 130MPa. 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.