

## ER5356

### MIG and TIG wire for aluminium

Product name	IABCO ER5356
Classification EN ISO	18273: S Al 5356 - AlMg5Cr(A)
Material No.	3.3556
Classification AWS	A5.10: ER5356
Approvals	-
Applications	ER5356 is a popular wire owing to its strength and good corrosion resistance. Provides excellent colour match after anodising. Although suitable for many 5XXX and 6XXX alloys when used to weld alloys such as 5083 and 5456 the minimum 275MPa strength may not be achieved and if the higher strength is required an alternative such as ER5183 or ER5556 should be used.
Base materials	5052, 5083, 5086, 5454, 5456, 6061, 6063, 6082, 7005, 7039. AlMg3, AlMg5, AlZn4.5Mg1, AlMg1SiCu, AlMgSi0.7. 3.3545, 3.3555.
Typical analysis of wire, weight %	Al: Balance Si: 0.2 Mn: 0.1 Mg: 5.0 Cr: 0.1 Ti: 0.1 Fe: 0.1
Typical procedure <sup>(1)</sup>	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 <sup>(2)</sup>	0.2% proof stress, Rp0.2%: 110MPa. Tensile strength, Rm: 240MPa. 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.