

Cu59ZnSn

Copper-zinc brazing alloy

Product name	IABCO Cu59ZnSn
Classification EN	1044: CU 302 (obsolete specification)
Classification EN ISO	17672: Cu 470 24373: Cu 4700
Material No.	-
Classification AWS	A5.8: RBCuZn-A
Approvals	-
Applications	IABCO Cu59ZnSn, a copper-zinc brazing alloy, has small additions of tin and silicon, to promote flow and control zinc volatilisation. Typical applications include tubular fabrications eg. bicycle frames, furniture, radiators and heating & cooling systems.
Base materials	Carbon steel. Cast iron. Stainless steel (when corrosion resistance is not a major requirement). Nickel and nickel alloys. Copper and copper alloys.
Typical analysis of wire, weight %	Cu: 59 Zn: Bal Sn: 0.3 Si: 0.3
Typical procedure ⁽¹⁾	For bare rods a suitable flux should be selected. Owing to the high Zn content it is recommended to keep the heating cycle to a minimum to prevent Zn volatilisation.
Properties ⁽²⁾	Tensile strength, Rm: 440MPa. Melting range: 875-895°C
Other products	Brazing: Flux Impreganated Cu59ZnSnMn Cu48ZnNi10

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.