

## Cu59ZnSnMn

### Copper-zinc brazing alloy

Product name	IABCO Cu59ZnSnMn
Classification EN	1044: ~CU 304/CU 306 (obsolete specifications)
Classification EN ISO	17672: ~Cu471/Cu 681 24373: ~Cu 4701
Material No.	-
Classification AWS	-
Approvals	-
Applications	IABCO Cu59ZnSnMn, a copper-zinc brazing alloy, has small additions of tin, manganese 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 Mn: 0.6 Sn: 0.3 Si: 0.3
Typical procedure <sup>(1)</sup>	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 vapourisation.
Properties <sup>(2)</sup>	Tensile strength, Rm: 440MPa. Melting range: 870-890°C
Other products	Brazing: Cu59ZnSn Flux Impregnated 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.