

ISOFIL AWD 24

(REF: K50938/B12)

The high-alloy CuSn alloy **ISOFIL AWD 24** is suitable for all welding processes. The weld metal achieves high hardness corresponding to a cast bronze, so it's used for particularly wear-resistant coatings as well as for join welding and repairs on bronzes. Very suitable for oven brazing.

Standardization and composition

ISO 24373	CuSn12P Cu5410
Cu	balance
Sn	12.00 - 13.00
P	0.15 - 0.25
Others	max. 0.5

Physical properties

Density (kg/dm³)	8.6
Melting range (°C)	825 - 990
Thermal conductivity (W / m x K)	40 - 50
Coefficient of linear mean expansion (10-6/K)	18.5
Electric conductivity (m / Ω x mm²)	3 - 5
Resistivity (Ω x mm² / m)	0.20 - 0.333

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	320
Elongation (%)	5
Brinell hardness (HB 2.5/62.5)	120
Notched bar impact test (Av (J))	8

Delivery options

Make-up	Weight/Length
Drum / bedradox	175 - 200 kg
SD300 / BS300 / K300	12 - 15 kg
H500 / H560 / H760	150 - 250 kg
Coils	25 - 100 kg
Rods	250 - 3000 mm



ISO OERLIKON AG Schweisstechnik

CH-5737 Menziken AG – Tel. +41 (0)62 771 83 05

E-Mail info@iso-oerlikon.ch – www.iso-oerlikon.ch