

Anchor Wire CuNi12Zn24 (Ns12)

Material based on a CuNiZn – alloy for anchor wire

Norms

CEN/TS 13388	: CuNi12Zn24	CW403J
EN 12166	: CuNi12Zn24	CW403J
ASTM	: UNS C75700	

Composition (weight %)

Cu	: 63,0 – 66,0
Ni	: 11,0 – 13,0
Mn	: max. 0,5
Zn	: balance
Others	: max. 0,5

Physical properties

Density	kg/dm ³	: 8,7
Melting range	° C	: 1020 - 1065
Modulus of elasticity	kN/mm ²	: 125
Thermal conductivity	W/m· K	: 42
Coefficient of linear expansion (20°C-300°C)	1/ K	: 16,2·10 ⁻⁶
Conductivity	m/Ω·mm ²	: 4,4 – 4,8
Resistivity	Ω·mm ² /m	: 0,208 – 0,227

Surface

Bright

Profiles

Flat profile, ungrooved / one-sided grooved / two-sided grooved
Round profile

Make up

Available in spools

Materials used in contact with foodstuff

The requirements of “Technical Guide on Metals and alloys used in food contact materials, CoE (2013)” are fulfilled.

Migrations tests have been made according to following standards:

- DIN EN 13130-1:
Guide to test methods of material and articles in contact with foodstuff
- DIN EN ISO 17294-2, DIN EN ISO 11885 (E22) + DIN EN ISO 17852 (E 35):
Methods for determination of chemical elements

The tests showed that migration of following chemical elements were below the limits of determination:

- Aluminium, Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Mercury, Molybdenum, Nickel, Silver, Thallium, Tin, Titanium, Vanadium, Zinc.

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