

TECHNICAL SHEET

CuNi30Fe



Product name

CuNi30Fe

Class of product

Cu alloy wire for MIG / TIG welding.

Corresponding standards

DIN1733 SG-CuNi30Fe

Werkstoff nr. 2.0837

BS 2901P.3 C 18

AWS A5.7 ERCuNi

Composition (weight %)

Cu: balance

Ni: 30,70 – 31,30

Mn: 0,60 – 1,00

Fe: 0,40 – 0,70

Ti: 0,30 – 0,50

Other: 0,5 max

Physical characteristics

Melting range: 1180 - 1240 °C

Density: 8,9 g/cm³

Thermal conductivity: 30 W/m K

Coeff. of linear mean expansion (20-300°C): 17,3 10⁻⁶ 1/K

Electric conductivity: 3 m/Ω·mm²

Resistively: 0,333 Ω·mm²/m

Mechanical Properties of welded joint (not treated, standard data)

Tensile strength: 420 N/mm²

Elongation 36 %

Brielle Hardness 115 HB 2,5/62,5

Notched bar impact test 240 J

Range of application:

Cu alloy wire, suitable for high stressed, corrosion resistant, weld surfacing on cast iron and on un-alloyed

and low-alloyed steels, and on seawater-resistant Cu-Zn alloys.

For welding on CuNi materials.

Applicable inert gas:

Argon 4.8/5.0/5.3/5.6/6.0

Characteristics Make-up:

Rods: Ø 2,0 6,0 mm Length: 1.000 mm

Wires: Ø 0,8 – 1,0 – 1,2 – 1,6 – 2,4 mm (on spools D300 and wire basket spools)

Other dimensions are available upon request

The above data are subject to change without notice by Spring.

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