

# TECHNICAL SHEET

## CuSn6



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### Product name

CuSn6

### Class of product

Cu-Sn alloy wire for MIG / TIG welding and weld surfacing.

### Corresponding standards

DIN1733 SG-CuSn6

Werkstoff nr. 2.1022

BS 2901P.3 C 11

AWS A5.7 ERcuSn-A

### Composition (weight %)

Cu: balance

Sn: 6,00 – 6,60

P: 0,2 – 0,25

Other: 0,5 max

### Physical characteristics

Melting range: 910 - 1040 °C

Density: 8,7 g/cm<sup>3</sup>

Thermal conductivity: 75 W/m × K

Coeff. of linear mean expansion (20-300°C): 18,1 × 10<sup>-6</sup> 1/K

Electric conductivity: 6 -7 m/Ω mm<sup>2</sup>

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

Tensile strength: 260 N/mm<sup>2</sup>

Elongation 20 %

Brinell Hardness 80 HB 2,5/62,5

Notched bar impact test 32 J

### Range of application:

Suitable for joining copper and copper alloys (e.g. tin-brasses) materials.

Ideal for joining copper-zinc alloys and steels.

Particularly suitable for repair works of bronze castings.

For pieces of big dimension, preheating is advised.

For layered weld-surfacing on ferrous base metals pulsed arc welding is recommended.

Also suitable for brazing in oven.

### Characteristics Make-up:

Rods: 1,6 6,0 mm Length: 1.000 mm

Wires: 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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