

Wire Welding alloys



IMPHY GILPHY 881 is a CuNi23Mn electrical-resistance alloy CuNi30 is a Copper Nickel alloy:

- IMPHY GILPHY 881 is dedicated for high resistance oxydation and chemical corrosion applications with a relatively low electrical resistivity.
- IMPHY GILPHY 881 has a maximum service temperature of 500°C.

Typical analysis

C	Si	Mn	Ni	Cu	Fe
< 0,02	< 0,20	0,25	22,50	Bal.	< 0,20
		0,45	23,50		

Specifications

- Werkstoff 2.0881
- The specification DIN 59115 about the geometry of the wire rod is applicable

Mechanical properties

Tensile strength (MPa)	Elongation A% on 100 mm	Electrical conductivity at 20°C
400 max	35 – 45	3,3 ± 0,2m/Ω.mm ²

Typical applications

GILPHY 881 is used for resistors of any type and for heat cord, cables and heating mats.

The data enclosed in this document are only given as indicative values and correspond to our standard product. Different specific requirements are subject to discussion and formal approval by Aperam Alloys Imphy. For further information or special request, please contact us.

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