

Wire Welding alloys



IMPHY GILPHY 80 is a 80/20 nickel-chromium electrical-resistance alloy:

- Through the addition of special elements, IMPHY GILPHY 80 has a good high temperature stability and a well-adhering oxide scale even under cyclic conditions.
- IMPHY GILPHY 80 has a maximum service temperature of 1200°C.

Typical analysis

C	Cr	Si	Fe	Mn	Ni
	19,0	1,0			Bal.
0,15	21,0	1,6	1,0	1,0	

Specifications

- Werkstoff 2.4869
- UNS N06003
- The specification DIN 59115 about the geometry of the wire rod is applicable

Mechanical properties

Tensile strength (MPa)	Elongation A% on 100 mm	Electrical resistivity at 20°C
750 max	40 - 45	109 ± 5% μΩcm

Typical applications

- IMPHY GILPHY 80 is used for heating elements in domestic appliances and industrial equipment.
- The alloy has a low coefficient of resistance making it suitable for control resistors.

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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