

## **Electrical Resistance**

# **IMPHY GILPHY 80**

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.

#### Chemical composition

С	Cr	Si	Fe	Mn	Ni
	19	1			Bal
0.15	21	1.6	1	1	Dai

#### International standards

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

### 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.

#### Mechanical properties

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

#### Available Forms

IMPHY GILPHY 80 is delivered in wire. Contact us for other specific formats.

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The data enclosed in this document are 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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