

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

C	Cr	Si	Fe	Mn	Ni
0.15	19 21	1 1.6	1	1	Bal

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 (MPa)	Elongation A% on 100 mm	Electrical resistivity 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.

