

## Wire Welding alloys



The resistance alloy IMPHY GILPHAL 135 is a ferritic chromium steel with 4 to 5% of aluminum:

- Through the addition of special elements, IMPHY GILPHAL 135 has a good high temperature stability and a well-adhering oxide scale even under cyclic conditions.
- IMPHY GILPHAL 135 has a maximum service temperature of 1200°C.

### Typical analysis

C	Cr	Al	Si	Fe
	22,0	4,0	0,2	Bal.
0,05	23,0	5,0	0,4	

### Specifications

- Werkstoff 1.4767
- ASTM B603
- The specification DIN 59115 about the geometry of the wire rod is applicable

### Mechanical properties

Tensile strength (MPa)	Elongation A%	Electrical resistivity at 20°C	Melting T° (°C)	Density (g/cm <sup>3</sup> )
750 max	15 - 20	135 μΩcm	1500	7,18

### Typical applications

IMPHY GILPHAL 135 is used for heating elements in domestic appliances.

*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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