

BGH FecroTHERM 20-5

Material Designation

1.4767 DIN
K92400 UNS
CrAl 20 5

Standards

DIN 17470

Chemical Composition

Mass-%, average value acc. to DIN 17470

Cr	Al	Fe
20,0	5,0	Bal.

Other elements may be added to meet physical and technological properties.

Properties

BGH FecroTHERM 20-5 is a stainless ferritic iron-chromium-aluminium alloy with high resistivity and good oxidation resistance. It is magnetic up to approx. 600 °C.

Delivery Condition

✘ annealed (+A)

Supply Form

Wire (on spool up to 3mm, coils, casks)
Bright bars, continuous cast billets

Application Area

Heating elements in high-temperature furnaces and radiant heaters with service temperatures up to 1300 °C.¹ Suitable for exhaust gas treatment.

Typical Applications

- ✘ Heating elements for high-temperature furnaces
- ✘ Burner heads and covers
- ✘ Heating tube elements
- ✘ Radiant heaters
- ✘ Ceran hobs

Mechanical Properties

at room temperature

Dimension [mm]	Tensile strength [N/mm ²]	Elongation [%]
0,060 - 0,125	≥ 600	8
> 0,125 - 1,00	≥ 600	10
> 1,00	≥ 600	12
> 2,00	≥ 600	12

Physical properties

Temperature [°C]	20	200	400	600	800	1000	1200
Electrical resistivity [Ω mm ² /m]	1,37	1,38	1,39	1,42	1,44	1,45	1,45
Thermal conductivity [W/m·K]	9,2						
Specific heat capacity [kJ/kg·K]	0,46					0,63	
Melting temperature [°C]	1500						
Density [g/cm ³]	7,2						

Temperature [°C]	20-400	20-800	20-1000
Thermal expansion coeff. x [10 ⁻⁶ /K]	12	14	15

¹Temperature valid for wire > 2 mm in air.

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated phased-array-ultrasonic testing up to dia. 1000 mm
- CO₂-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

Your personal contact:

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