

SIGRAFINE® R4300

Material: Graphite
Forming: Isostatically pressed
Application: Continuous casting

Material data of SIGRAFINE® R4300

Typical properties	Units	Test standards	Values*
Average grain size	µm	ISO 13320	20
Bulk density	g/cm ³	DIN IEC 60413/204	1.73
Open porosity	Vol. %	DIN 66133	14
Medium pore entrance diameter	µm	DIN 66133	1.6
Coefficient of permeability (ambient temperature)	cm ² /s	DIN 51935	0.1
Rockwell hardness HR _{10/100}		DIN IEC 60413/303	75
Resistivity	µΩm	DIN IEC 60413/402	16
Flexural strength	MPa	DIN IEC 60413/501	40
Compressive strength	MPa	DIN 51910	85
Dynamic modulus of elasticity	MPa	DIN 51915	10 x 10 ³
Thermal expansion (20 - 200 °C)	K ⁻¹	DIN 51909	2.7 x 10 ⁻⁶
Thermal conductivity (20 °C)	Wm ⁻¹ K ⁻¹	DIN 51908	70
Ash content	ppm	DIN 51903	200

* Typical average values of different rectangular and round block sizes. The actual individual block values might vary depending on dimension and format. For any engineering/design purposes please always contact our technical sales team.



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