

## SIGRAFINE® R8650

Material: Graphite

Forming: Isostatically pressed

**Application:** EDM

## Material data of SIGRAFINE® R8650

Typical properties	Units	Test standards	Values*_
Average grain size	μm	ISO 13320	7
Bulk density	g/cm³	DIN IEC 60413/204	1.84
Open porosity	Vol. %	DIN 66133	10
Medium pore entrance diameter	μm	DIN 66133	1.1
Coefficient of permeability (ambient temperature)	cm²/s	DIN 51935	0.02
Rockwell hardness HR 5/100		DIN IEC 60413/303	95
Resistivity	μΩm	DIN IEC 60413/402	14
Flexural strength	MPa	DIN IEC 60413/501	65
Compressive strength	MPa	DIN 51910	150
Dynamic modulus of elasticity	MPa	DIN 51915	12.5 x 10 <sup>3</sup>
Thermal expansion (20 - 200 °C)	K <sup>-1</sup>	DIN 51909	4.1 x 10 <sup>-6</sup>
Thermal conductivity (20 °C)	Wm <sup>-1</sup> K <sup>-1</sup>	DIN 51908	100
Ash content	ppm	DIN 51903	200

<sup>\*</sup> 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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## TDS R8650.00

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