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## SIGRAFINE® R8500X

Material: Graphite

Forming: Isostatically pressed

**Application: EDM** 

SIGRAFINE® is the new brand name for our fine-grain graphites, previously known under the names RINGSDORFF®, SIGRAFORM®, SIGRAMENT® and CRYSTA-SIL®.

## Material data of SIGRAFINE® R8500X

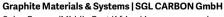
Typical properties	Units	Test standards	Values*
Average grain size	 μm	ISO 13320	12
Bulk density	g/cm <sup>3</sup>	DIN IEC 60413/204	1.75
Open porosity —	Vol. %	DIN 66133	14
Medium pore entrance diameter	μm	DIN 66133	2.0
Coefficient of permeability (ambient temperature)	cm²/s	DIN 51935	0.15
Rockwell hardness HR <sub>5/100</sub>		DIN IEC 60413/303	70
Resistivity	 μΩm	DIN IEC 60413/402	15
Flexural strength	MPa	DIN IEC 60413/501	45
Compressive strength	MPa	DIN 51910	100
Dynamic modulus of elasticity	MPa	DIN 51915	10.5 x 10 <sup>3</sup>
Thermal expansion (20 – 200 °C)	K <sup>-1</sup>	DIN 51909	4.2 x 10 <sup>-6</sup>
Thermal conductivity (20 °C)	Wm <sup>-1</sup> K <sup>-1</sup>	DIN 51908	80
Ash content	ppm	DIN 51903	200

<sup>\*</sup> Value might be changed due to material size

## \* registered trademarks of SGL CARBON SE

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This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our "General Conditions of Sale".





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