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SIGRAFINE® R8500X

Material: Graphite
Forming: Isostatically pressed
Application: EDM

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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 ³ | 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) | cm ² /s | DIN 51935 | 0.15 |
| Rockwell hardness HR _{5/100} | | 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 ³ |
| Thermal expansion (20 – 200 °C) | K ⁻¹ | DIN 51909 | 4.2 x 10 ⁻⁶ |
| Thermal conductivity (20 °C) | Wm ⁻¹ K ⁻¹ | DIN 51908 | 80 |
| Ash content | ppm | DIN 51903 | 200 |

* Value might be changed due to material size

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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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