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## PRODUCT-INFORMATION

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### 1. Product Name

MECHANO-LUBE<sup>®</sup> 1

### 2. Product description

MECHANO-LUBE<sup>®</sup> 1 is very pure special ground natural graphite. MECHANO-LUBE<sup>®</sup> 1 shows an excellent compatibility with a wide of lacquer formulations as well as with polymer systems like thermoplastics or thermo setting resins. Because of the special refining method MECHANO-LUBE<sup>®</sup> 1 is suitable as lubricant and coating aid. This product shows an outstanding infrared diffusion and reflectance and can be used in insulating materials.

### 3. Applications

- Reduction of friction coefficient
- Improvement of thermal conductivity
- Shielding material (EMI/RFI/infrared)
- Synergistic effects with other lubricants like tungsten disulphide, molybdenum disulphide, hexagonal boron nitride and PTFE
- Coatings und lacquers
- Reinforcing material in thermoplastic and resins

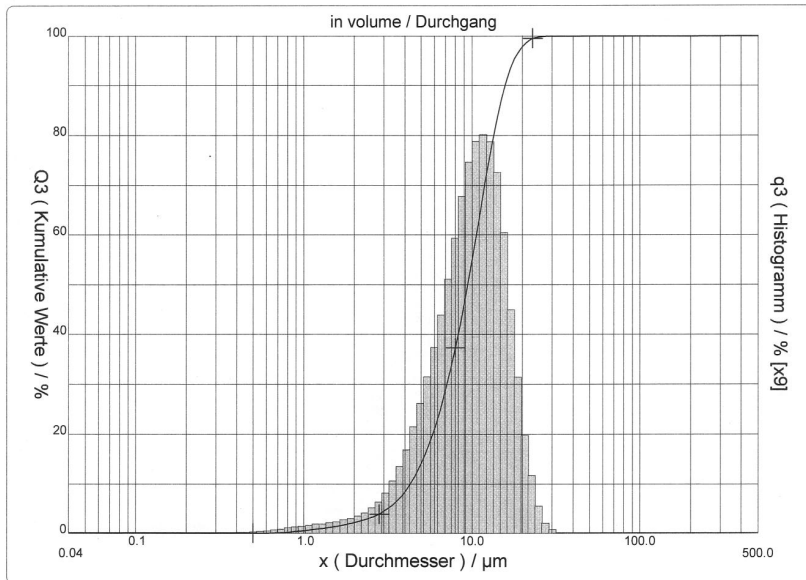
### 4. Properties

Property	Specification	Unit	Method
Carbon	>99.5	Wt. %	DIN 51903
Moisture	max. 0.5	Wt. %	110°C Drying
Ash content	max. 0.5	Wt. %	
Particle size D <sub>50</sub>	3-5	µm	Laser diffraction
Particle size D <sub>10</sub>	1-3	µm	Laser diffraction
Particle size D <sub>90</sub>	7-10	µm	Laser diffraction
Specific surface area	10	m <sup>2</sup> /g	BET
Bulk density	250	g/l	Home method
Funktionalizing		-	n.a.

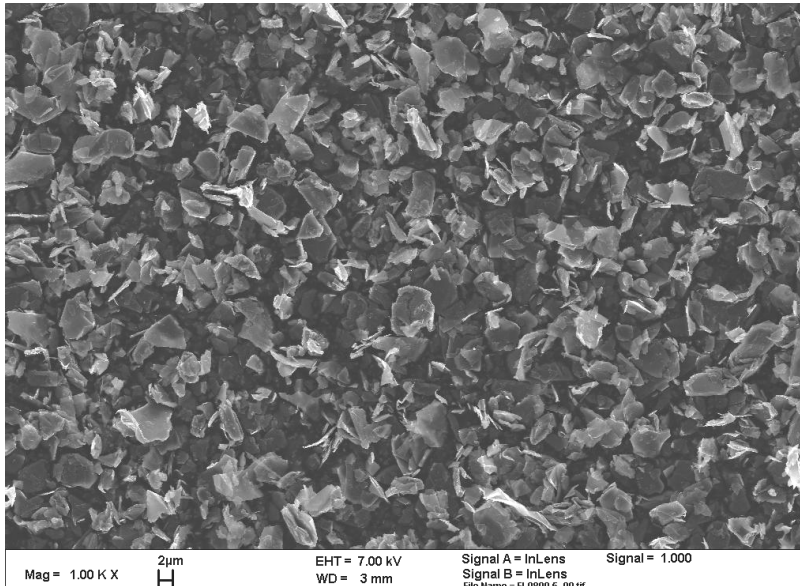


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### 5. Typical particle size distribution



### 6. Typical particle shape



Information provided on this technical data sheet indicates the approximate physical and chemical properties of the material. No warranty is made either expressed or implied regarding the accuracy or the results to be obtained from the use of such information.