H.C. CARBON GmbH

PRODUCT-INFORMATION

1. Product Name

MECHANO-LUBE$^®$ 2

2. Product description

MECHANO-LUBE$^®$ 2 is very fine grinded natural graphite with nano size particles. MECHANO-LUBE$^®$ 2 has a unique particle shape and an excellent dispersability in almost all liquids. Because of its small particle size and very sharp particle size distribution MECHANO-LUBE$^®$ 2 is very stable against sedimentation. The special grinding and classifying method of MECHANO-LUBE$^®$ 2 enables very low viscosities. It is compatible with a wide range of lacquer formulations (water and solvent based) as well as with polymer systems like thermoplastics or thermo setting resins.

3. Applications

– Mould releasing agent in hot metal forming process
– Reduction of friction
– Improvement of thermal conductivity in polymers
– Synergistic effects wit other lubricants like tungsten disulphide, molybdenum disulphide, hexagonal boron nitride and PTFE.
– Coatings und lacquers
– Reinforcing material in thermoplastic and resins
– Reduction of shrinkage in plastics and resins
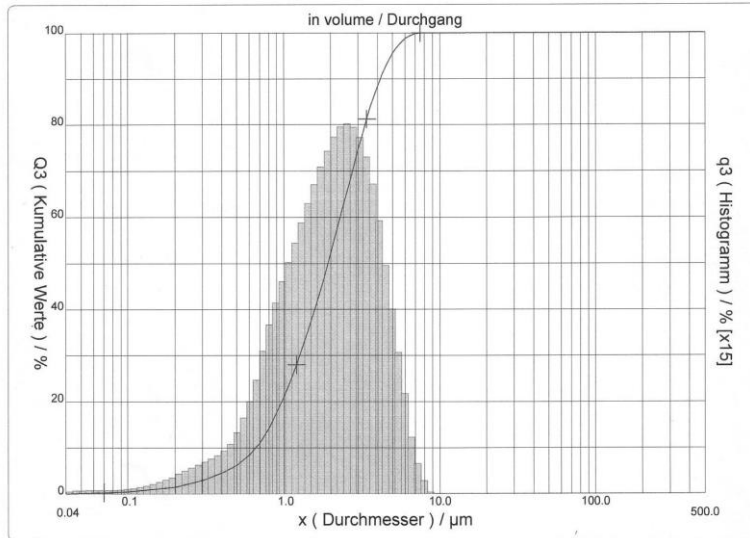– Infrared absorber in Polymers

4. Properties

Property	Specification	Unit	Method
Carbon content	min. 89	Wt. %	110°C Drying
Moisture	max. 1	Wt. %	110°C Drying
Particle size D_{50}	2-3	µm	Laser diffraction
Particle size D_{10}	0.4-1	µm	Laser diffraction
Particle size D_{90}	6-10	µm	Laser diffraction
Specific surface area	10	m²/g	BET
Bulk density	160	g/l	Home method
Functionalizing		-	n.a.

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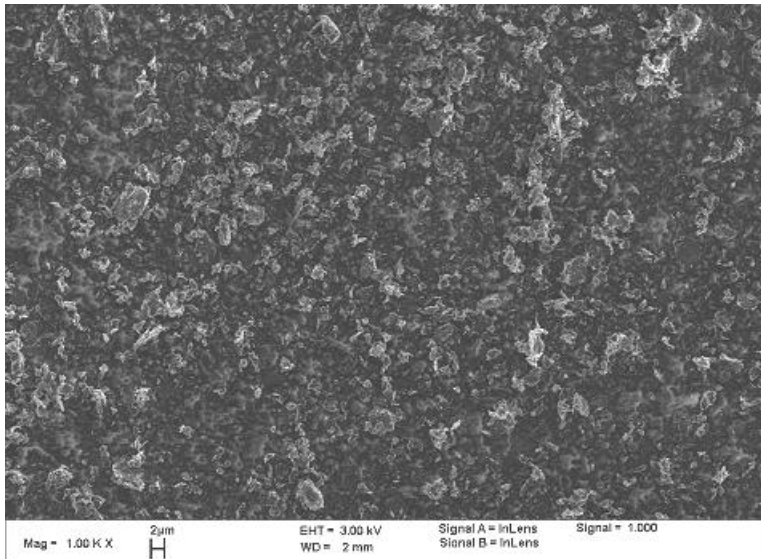Fax: +49 (0) 911/475859-49
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PRODUCT-INFORMATION

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.