



PRODUCT-INFORMATION

1. Product Name

MECHANO-REM[®] 5

2. Product description

MECHANO-REM[®] 5 is a special treated carbon*. The particular structure of this product is based on our advanced refining and grinding method. This structured carbon shows no graphitic properties but can replace graphite in several applications. The speciality of our carbon is its platelet structure and its high aspect ratio.

MECHANO-REM[®] 5 shows an outstanding infrared diffusion and reflectance and can be used in insulating materials. The thermal conductivity compared with graphite is significant lower and the intrinsic thermal conductivity is reduced.

MECHANO-REM[®] 5 is excellent compatible with a wide range of lacquer formulations as well as with polymer systems like thermoplastics or thermo setting resins.

3. Applications

- Infrared blocker und -diffuser in insulating systems like EPS and XPS and mineral fibres
- Chemical inert filler
- Thermal resistant filler in friction systems
- Reinforcing material in thermoplastic and resins

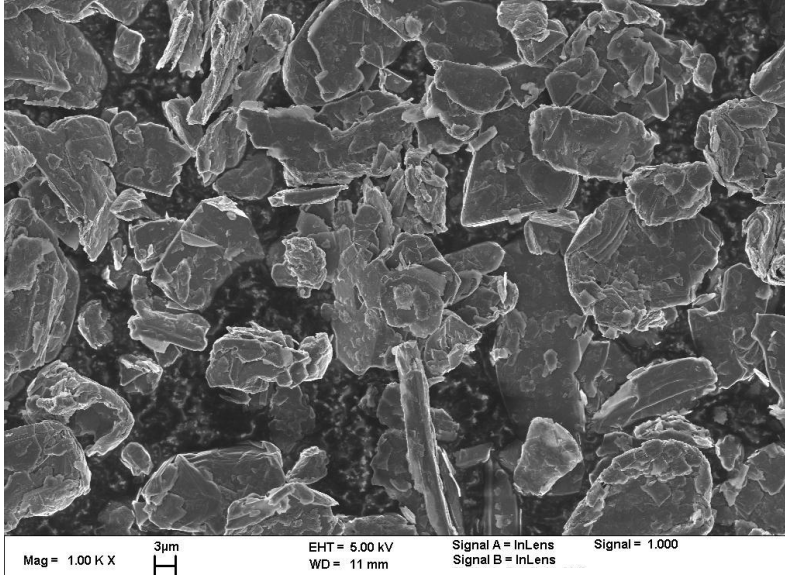
4. Properties

Property	Specification	Unit	Method
Carbon	>98,0	Wt. %	DIN 51903
Moisture	max. 0,5	Wt. %	110°C Drying
Particle size D ₅₀	4-6	µm	Laser diffraction
Particle size D ₁₀	1,5-3	µm	Laser diffraction
Particle size D ₉₀	7-10	µm	Laser diffraction
Specific surface area	8	m ² /g	BET
Bulk density	320	g/l	Home method
Functionalizing		-	n.a.



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5. Typical particle shape



SEM picture shows a typical particle shape which is valid for all our special carbons. The picture above was taken from a larger particle size $D_{50} 10\mu\text{m}$.

*Patented

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.