



EKASIL

Rice Husk Carbon Product

EKASIL Carbon



EKASIL Rice Husk Carbon is a by-product obtained from rice husk silica production process at a ratio of 0.2 kilogram pure carbon per 1 kilogram finished product of rice husk silica, 99.99% purity. In the research conducted for a pharmaceutical company, the obtained carbon was tested and compared with the medical-grade activated carbon Renamezin® and Kremezine®. The result showed that the obtained carbon was of high purity and had a larger specific surface area (BET) than the compared products at 1,300 m²/g which indicates a potentially higher sorption capacity of indoxyl sulfate and p-Cresol.

Physico-Chemical Data	EKASIL Carbon
Color	Black
pH (5g/100ml H ₂ O)	5.5 - 6.5
Specific surface area (BET analysis), m ² /g	1,300 (+-15%)
Sorption capacity (p-Cresol), g/g	0.5
Mass fraction of moisture (1 hours at 105 C), %	≤ 8
Water-soluble salt content, %	< 1.0
Mass fractions of carbon, %	99.5

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Mass fractions of SiO ₂ , %	< 0.1
Mass fractions of Na ₂ O, %	< 0.1
Mass fractions of MgO, %	< 0.1
Mass fractions of CaO, %	< 0.1
Mass fractions of K ₂ O, %	< 0.1
Mass fractions of Cl, %	< 0.01
Mass fractions of Al ₂ O ₃ , %	< 0.01
Mass fractions of P ₂ O ₅ , %	< 0.01
Mass fractions of SO ₃ , %	< 0.01
Mass fractions of FeO impurities, %	< 0.001

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