



**EKASIL**

Rice Husk Silicon Dioxide

# Rice Husk Silica



**EKASIL Rice Husk Silica** is a sustainable and eco-friendly silicon dioxide product obtained from rice husk through specially designed technology that enables high-purity production with a silica content of up to 99.99%. Unlike typical silica sourced from sand, EKASIL rice husk silica is an environmentally friendly product. It is obtained via waste utilization in a nonpolluting, low-energy-consuming manufacturing process. Thanks to controlled production, the products can be customized with various physico-characteristic properties to match customers' specific requests, if any. EKASIL rice husk silica is a green and efficient utilization of waste with outstanding purity, making it an excellent choice for environmentally conscious individuals and companies.



**Eco friendly**  
amorphous silica  
obtained from rice husk



**Customizable**  
physico-chemical properties  
for different applications



**High purity**  
up to 99.99% with  
stable specification



**PR & Marketing**  
for adopting environmentally  
friendly products



**Competitive price**  
compared to silicon dioxide of  
the same spec in the market



**Wide range**  
of applications across  
different industries

# EKASIL Basic

As the name suggests, EKASIL Basic is the rice husk silica product with a basic specification that is obtained directly from the production process without modifications. However, if requested, this specification can be customized to specifically meet the needs of customers.

Characteristic	EKASIL Basic
Purity (SiO <sub>2</sub> ), %	99.99% nano silica
Appearance	White powder
pH (5g/100ml H <sub>2</sub> O)	5.5-8.0 (customizable)
Specific surface area (BET analysis), m <sup>2</sup> /g	350-600 (customizable)
Mass fraction of moisture (2 hours at 105 C, %)	10-27 (customizable)
LOI (2 hours at the 1,000 C), %	13-30 (customizable)
Water-soluble salts content (total), %	≤ 2
Mass fractions of carbon, %	≤ 0.01
Mass fractions of SiO <sub>2</sub> , %	99.99
Mass fractions of Na <sub>2</sub> O, %	Not detected
Mass fractions of MgO, %	Not detected
Mass fractions of CaO, %	Not detected
Mass fractions of K <sub>2</sub> O, %	Not detected

# EKASIL Basic

Mass fractions of Cl, %	Not detected
Mass fractions of Al <sub>2</sub> O <sub>3</sub> , %	Not detected
Mass fractions of P <sub>2</sub> O <sub>5</sub> , %	Not detected
Mass fractions of SO <sub>3</sub> , %	Not detected
Mass fractions of MnO, %	Not detected
Mass fractions (residue) remaining on the 75 μm sieve, %	4-6
Mass fractions of FeO impurities, %	Not detected
Mass fraction of crystalline silicon dioxide, %	Not detected
Nanoparticle size, nm	15-50

# EKASIL Basic

Thanks to the specially designed production technology that enables flexible product customization, EKASIL Basic can be modified specifically to meet special requests from customers.

<b>Customizable Characteristic</b>	<b>EKASIL Basic</b>
Purity (SiO <sub>2</sub> )	Customizable
pH	Customizable
Specific surface area	Customizable
Moisture	Customizable
LOI	Customizable
Hydrophillic - hydrophobic	Customizable
Application properties	Customizable

**EKASIL**  
[www.ekasil.com](http://www.ekasil.com)