01 · Powder

High-Purity, Amorphous & Highly Reactive Biogenic Silica

Active Silica Powder is a high-purity silica produced from renewable agricultural resources through carefully controlled thermal and chemical processing. The amorphous structure is preserved through the process, so the material stays chemically reactive rather than behaving as an inert filler.

KEY CHARACTERISTICS

- Amorphous, non-crystalline structure
- High chemical reactivity
- Low unwanted impurities
- Renewable agricultural origin
- Consistent product quality

MAIN APPLICATIONS

Agriculture · Rubber & Polymers · Refractories & Ceramics · Steel & Metallurgy · Industrial Fillers · Filtration & Purification

CHEMICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Grey powder
SiO_2	> 90 %
Fe_2O_3	< 0.8 %
CaO	< 1.5 %
Al_2O_3	< 1.5 %
$K_2O + Na_2O + MgO + P_2O_5$	< 4 %
Carbon content	< 5 %
pH	7–7.5

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Sintering point	1500 °C
Hemisphere point	1560 °C
Melting point	1600 °C
Water absorption	200 %
Hygroscopicity	6 %
Grain size	< 2 mm
Bulk density	0.2 t/m^3
Water content / moisture	< 1 %
BET surface area	60–80 m^2/g
Pore volume	0.25–0.4 cm^3/g

Carbon content and grain size can be tailored to meet specific applications and customer requirements.

PACKAGING

5 kg LDPE bags. Other formats to customer requirement.

Bio-Silica — Egypt.
The information given is offered in good faith as a guide. It does not constitute a specification and does not release the buyer from testing the material for their own application. Safety information is given in the Safety Data Sheet.