Product :-

Activated Silicon Dioxide Powder For Agriculture

Supplier & Manufacturer of Silicon Dioxide for Agriculture. Our product range also comprises of Paints Additives, Textile Chemicals and Nitrobenzene Emulsifier.

Sub Category :

Activated Silicon Dioxide

Brand :- FM D90

**Silicon Dioxide for Agriculture:**

We have established ourselves among the most prominent Manufacturers and Suppliers in the country. We manufacture extremely pure Silicon Dioxide which is completely dispersible in water having $\text{SiO}_2$ content of 98 - 99 %. It supplies silicon to the crop which in turn reduces transpiration, salinity stress and water stress. It retards excessive vegetative growth and converts it into reproductive growth of the plant. When drenched in soil, Silicon Dioxide effectively deters the entry of mycopathogens into the root system hence can be used as a preventive and curative measure against phytopthora, Rhizoctonia, Fusarium etc. It strengthens the cell wall, helps in shoot development and imparts resistance to the plant against pests and diseases. It can be used to control phytopthora in orange and pomegranate.

**The Specification Of Silicon Dioxide:**

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<table>
<thead>
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<tbody>
<tr>
<td>SiO$_2$</td>
<td>99.72%</td>
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<tr>
<td>MgCO$_3$</td>
<td>0.01%</td>
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<tr>
<td>Fe$_2$O$_3$</td>
<td>0.04%</td>
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<tr>
<td>CaO</td>
<td>0.03%</td>
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<tr>
<td>Al$_2$O$_3$</td>
<td>0.05%</td>
</tr>
<tr>
<td>LOI</td>
<td>0.09%</td>
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<tr>
<td>Specific Gravity</td>
<td>2.55</td>
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<tr>
<td>Whiteness</td>
<td>95% to 98%</td>
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<tr>
<td>Colour</td>
<td>Snow White</td>
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**Packing :**

50 kg bags / 30 Kg Bags
Benefits of using active Silicon Dioxide

It increases plant growth, flowering and fruiting.
It increases crop yield and quality of crop.
It is rich source of Plant available Silicon.
It has high water holding capacity.
It Neutralize Aluminum toxicity
It unlocks Phosphate and makes it available to plant.
It reduces use of conventional Fertilizers from 25-30 %
It protects plants against insect, pests and fungal infection.
There is reduction in irrigation and gives drought resistance to plant.
It increases plants resistance to salt intoxication.
It increases soil porosity.
It gives strength to roots and stem of plant.

Application

It can be added in soil before planting, at the time of sowing it can be applied with seed.
For Sugarcane, Rice, Cassava, vegetables and other crops it can be mixed in soil during preparation of Soil.
For Rubber, Tea Coffee and other fruit and flower plantation a small part of it can be applied near roots while sowing and in old plants by digging and applying near roots.

Doses

In agriculture crops- 500 to 600 kgs per hectare.
In turf and landscaping – 15 -20 % of soil volume.
In Sugarcane – 500 kgs per hectare. (Broadcast spread and incorporated into the top 10-20 cm using an off-set disc plough or rotary hue for sugarcane. Generally, all Si is applied to soil before planting).
In Rice- 600 kgs per hectare.
In cotton 500 kgs per hectare.
In fruit plants- 250 gms per plant. (To be applied near roots.)
In flowering plants- 50 gms per plant (To be applied near roots.)
In vegetables- 500 kgs per hectare