

PRODUCT DATASHEET – SiliCa –

Product Classification:

Product Class:	Agricultural - Calcium Silicate
Registration Number:	Submitted for registration
Description & Application:	Highly soluble calcium silicate, excellent source of plant available silica (PAS) combined with good liming properties

Chemical Properties:

Component	Typical
Total Neutralisation Value (%CCE, HCl)	>60%
Aqueous pH	>9
Ca as CaCO ₃	>60%
Mg as MgCO ₃	<1%
Amorphous Silica as SiO ₂	>38%
Manganese as MnO ₂	<0.7%
Aluminium as Al ₂ O ₃	<0.7%
Iron as Fe ₂ O ₃	<0.4%

Physical Properties:

Component	Typical
<10mm	100%
<3.35mm	>85%
Colour / Texture	White, soft powder / small granules
Crystallography	Largely amorphous, Ca ₃ Mg(SiO ₄) ₂ , Ca ₄ Si ₂ O ₇ (F,OH) ₂ , Ca ₂ MgSi ₂ O ₇
Solubility of a 10% aqueous extract as [Si, ppm] after 120 days	>58% of theoretical maximum
Soluble Si provided per ton product after 120 days	72 kg / 7.2%

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