

Product Description

Micronised Mineral Solutions (MMS) Calci-Flour is a high quality Calcium Carbonate product ground to mean average particle size of 20 microns. The Calci-flour manufacturing process has been engineered to maximise the materials Neutralisation Value (NV) to create an effective balancing agent for low pH soils.

What is Calcium Carbonate?

Calcium Carbonate, known as limestone (CaCO₃), is a naturally occurring sedimentary rock comprised mostly of calcite and aragonite, which are different crystal forms of calcium carbonate.

Applications

Calcium carbonate is a primary component of Agricultural lime, also known as Ag-lime which is used for neutralising acidic soil and to enhance soil quality. The same acidic neutralizing effect is used in the civil industry for the treatment of potential acid sulphate soils to remove the potential development of sulfuric acid.

Agricultural:

Calcium carbonate when added to soil, acts as a rich source of calcium for plants and increases the pH and water-retaining capacity of acidic soils. This process also improves plant uptake of essential nutrients including nitrogen, phosphorus and potassium.

Note on neutralising value

Approximation of Neutralising Value can be made by CaCo3 + (2.5 x MgO). Neutralising Value is a calculated adjustment of the Neutralising Value, using the fineness of the lime. Lime retained on an 850 µm sieve is estimated to be only 10% effective. Lime in the 300-850 µm sieve range is estimated to be only 60% effective, while lime passing the 300 µm sieve is estimated to be 100% effective.

Source: Report on sample of Lime, 2016, SWEPTy. Ltd.

Packaging options:

- 500 kgs Bulker Bags
- 1000 kgs Bulker Bags
- 1200 kgs Bulker Bags

Safety Information

Personnel should wear dust-proof goggles, PVC or rubber gloves and impervious shoes. While using in large quantities, use coveralls. For more information, refer to Safety Data Sheet for Calcium Carbonate.

PROPERTIES	METHOD	TYPICAL
CaO Available	AS4489-1997	37%
CaCO ₃	AS4489-1997	80%
NV	AS4489-1997	115%
SiO ₂	XRF	2.5%
Al ₂ O ₃	XRF	0.9%
Fe ₂ O ₃	XRF	0.6%
MgO	AS4489-1997	8%
Mean Avg particle size		20µm
pH in slurry	AS4489-1997	8 - 10

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PHYSICAL PROPERTIES	
Grain size <100µm	>95% passing
Surface Area kg	900 -1000m ²
Bulk Density	1050 - 1200kg/m ³

Disclaimer

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