PRODUCT INFO & DATASHEET

CALCIUM CARBONATES = CAL lime fertilisers

Origin : E.U.

INTRODUCTION

We can offer 3 qualities of Calcium carbonates, soil fertilisers. As soil fertiliser, the first aim is to correct the soil´s acidity to reduce the concentration of Aluminium (Al) in the soil. The poor growth of the crops is due to the acidity, mainly caused by the Al soluble. This is a toxic product for the radical system of the plants. The lime fertiliser reduces the Al soluble by two chemicals reactions; 1) CaCO3 + H2O → Ca2+ + 2OH- + CO2

2) Al3+ [soluble] + 3OH- → Al(OH)3 [insoluble]

The cal´s aggregate is also a valuable source of Ca (and possibly Mg) for the plant´s nutrition, any of the collateral benefits linked to the acidity´s neutralisation of the soil with Cal include :

- More availability of Phosphorus (P)
- Better Nitrogen (N) fixation for the leguminous plants.
- Increases mineralization of (N) and nitrification
- Best use of water, recuperation of nutrients and plant´s growth with a healthy root system.

I. Granular Calcium Carbonates – Extra white marble TYPES 1 Gran and 2 Gran

GRANULOMETRY	**Type 1 Gran**	**Type 2 Gran**
Size distribution - Sieve	ISO 787R/7: % retained	ISO 787R/7: % retained
> 2.0 mm	0	0
> 1.0 mm	10 – 20	88 – 98
> 0.5 mm	70 – 90	0 – 10
> 0.25 mm	0 – 5	0 – 2
< 0.25 mm	0 – 1	0 – 1
TECHNICAL PROPERTIES (average values)	**Type 1 Gran & Type 2 Gran**	
Test	Value	Standard
Moisture	< 0.2 %	ISO 787R/2
Bulk density	1.35 kg/l	ISO 787R/11
CHEMICAL COMPOSITION (ICP)	**Type 1 Gran & Type 2 Gran**	
$CaCO_3$	98.84	
$MgCO_3$	0.57	
Fe_2O_3	0.011	

II. Micronized Calcium Carbonate – Marble TYPE 3 Micro

GRANULOMETRY	**Value**	**Analytic method**
Sieve retention 250 µm	< 2 %	ISO 787R/7 (81)
% < 100 µm	70 – 100 %	mastersizer
Whiteness	Dry	
L	96.5 +/- 1.5	Spectraflash SF450
a	0.16 +/- 0.20	Spectraflash SF450
b	2.80 +/- 1.50	Spectraflash SF450
TECHNICAL PROPERTIES (average values)	**Type 3 Micro**	
Test	Value	Analytic method
Humidity	< 0.1 %	ISO 787R/2 (81)
Dop absorption	29 g/100g CaCO3	ISO 787R/5 (81)
Bulk density	1.0 kg/l	ISO 787R/11 (81)
Insoluble residue (Hcl)	< 0.2 %	INS.LAB10.13
CHEMICAL COMPOSITION	**Value**	**Analytic method**
$CaCO_3$	98.87 %	ICP
$MgCO_3$	0.87 %	ICP
Fe_2O_3	0.011 %	ICP

PACKING

These 3 qualities are available only in 1300 kg net big bags x 20 = 26 MT per 20ft container.

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