



**PRODUCT INFO  
& DATASHEET**

SICO GRANULATED AGRICULTURAL LIMES

## **SICO-GRANUDOL<sup>®</sup> & SICO-GRANUDOL SPECIAL<sup>®</sup>**

*Natural garden limes.  
Granulated limes with magnesium.  
60% CaCO<sub>3</sub> + 30% MgCO<sub>3</sub>*

11/2015

*For ornamental & vegetable gardens, lawns & turf, orchards, forests etc.  
Allowed in biological agriculture and horticulture conform E.U. regulations EC-834/2007.*

### **1/ PRODUCT DESCRIPTION**

SICO-GRANUDOL is a high quality granulated lime with magnesium for ornamental & vegetable gardens, lawns & turf, orchards, forests etc.

- Guarantees a better soil structure and an ideal acidity level of the soil.
  - Calcium has a positive influence on the soil structure.
  - Magnesium is essential for leaf-green activity and issues also a sound green leaf color.
- Increases the pH: an optimal acidity level of the soil provides a better take-up of such nutrients as nitrogen, phosphorus, potassium etc.
- Provides plant growth at the same time.
- SICO-GRANUDOL can be spread easily and has very good solubility, so a fast action is guaranteed.
- Allowed in biological agriculture & horticulture conform E.U. regulations nr. 834/2007.

### **2/ PRODUCT COMPOSITION**

CaCO <sub>3</sub>	: 60 % (24 % Ca)
MgCO <sub>3</sub>	: 30 % (15 % MgO)
Acid binding value (ABV)	: 53
Available in 2 granulations	: SICO-GRANUDOL : 1.6 – 5.6 mm (after breaking up 90% < 0.063 mm) SICO-GRANUDOL SPECIAL : 2.2 – 5 mm (after breaking up 90% < 0.063 mm)
Shaken weight	: ca 1170 kg/m <sup>2</sup>
Density	: 2.47 g/cm <sup>3</sup>

### **3/ GENERAL RECOMMENDATIONS FOR USE & APPLICATION RATES**

To maintain the lime level of the soil, a maintenance liming of 10 to 15 kgs per 100 m<sup>2</sup> is recommended. Spring and autumn are the best periods to strew.

### **SPECIFIC recommendations**

- Agriculture
  - Repair liming according to soil analysis
  - Maintenance liming : 3 MT/ha every 3 years
- Grassland
  - Repair liming according to soil analysis
  - Maintenance liming : 1.5-2 MT /ha every 4 years
- Lime for the forest
  - Forest soils are acidifying on a frightening scale. Emissions of sulphur dioxide and embrodering-oxide are guilty for this phenomenon. Sulphur dioxide, nitrogen oxides, transformation products attack soils and trees. Countermeasures, as liming and fertilising are absolutely necessary in order to reduce acidity an their consequential damages. The part of the ill trees in certain parts of Western Europe lies today according to region and tree species between 32 and 76 percent. More than 1/3 of all forest soils already show damages !!

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy itself of the suitability for its own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

**SAP INTERNATIONAL CORPORATION by Krekelenberg 83, B-2980 Zoersel, Belgium**  
Tel. +32-3-309.06.51 Email : [info@sico.be](mailto:info@sico.be) Website : [www.sico.be](http://www.sico.be)

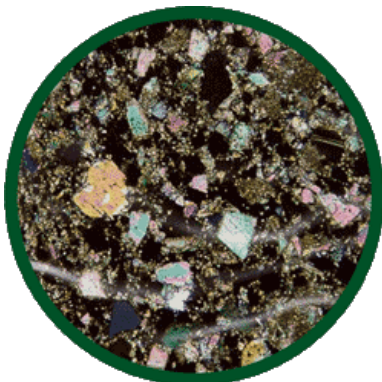


- **Forests**
  - Soil protection liming : 3 MT /ha every 10-15 years
  - Soil preparation : 3-5 MT/ha
  - Plant hole liming and individual plant fertilisation : 160 – 300 g/plant
- **Garden**
  - Repair liming : up to 30 kg/100 m<sup>2</sup>
  - Maintenance liming : 5-8 kg/100 m<sup>2</sup> yearly for turf, lawns
  - Maintenance liming : 5-10 kg/100 m<sup>2</sup> yearly
  - Maintenance liming : 12-15 kg/100 m<sup>2</sup> yearly for fruit trees, orchards
  - Maintenance liming : ca 20 kg/m<sup>3</sup> for improving compost
- **Special granulates = easy application**
  - centrifugal shaker & strewer (agriculture + grassland)
  - for forests: dispersion by helicopter, centrifugal shaker & strewer or by hand
  - excellent for use in mixing plants in gardens by strewer or manually

**SOLUBILITY is NOT just solubility !**

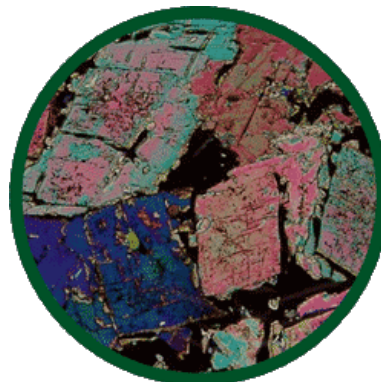
The two photos under the polarisation microscope in the scale 140:1 of the Institute for plant feeding and soil customers, show the fineness of granule differences clearly and in this way the considerably better crystals and dissolving effect of our high-quality granular SICO-GRANUDOL against the standard product of a lime competitor company.

SICO-GRANUDOL



Well marked crystals and crystal fragments of calcareous spar and dolomite, mostly 0.02 to 0.1 mm Ø, in a groundmass of dust-fine calcareous spar crystals. Calcareous spar microlite.

Standar product competitor



Rhomboidic crystals (mostly dolomite) with in part calcitic binding agent. Clear corrosion features. Grain sizes 0.3 to 0.5 mm.

**4/ BIOLOGICAL FARMING**

SICO-GRANUDOL is allowed in biological agriculture and horticulture conform E.U. regulations EC-834/2007.

**5/ SALES RATIONALE OF NATURAL LIME**

**1. Causes optimal soil reaction**

Profits can only be obtained if all growth factors are right. The correct lime conditions of the soil and an optimal pH-value are required conditions to achieve these goals.

**2. Stabilises the soil structure**

SICO-GRANUDOL improves both humus content and quality and creates a stable soil structure and plant growth is optimised.

**3. Intensifies the biological activity in the soil**

Only in lime-rich soils useful living beings find the living conditions that they need. Only in lime-rich surroundings they can turn over the organic substances quickly and build up valuable humus continuously.



**PRODUCT INFO  
& DATASHEET**

**4. Safeguards good water leadership and soil ventilation**

The part of air and water-permeable pores in the soil is high enough only with sufficient lime supply, which allows the soil to include also greater water amounts and storerooms. Through higher percolation also surplus water can soak more easily.

**5. Reduces encrusting and clogging**

SICO-GRANUDOL stabilises the crumb structure of the soil, so it dries up more quickly and warms up more easily and becomes more resistant against compression and erosion.

**6. Deepens the root room in the soil**

If lime is missing, it results in compressions in the soil subfloor.

Sufficient lime stock – also in deeper shifts – facilitates unobstructed root growth.

**7. Helps to reduce fertilising costs**

The best possible nutrient use & uptake by the plants is only possible in case a good lime supply is safeguarded. The plant-available phosphate stock increases, the nitrogen-release climbs by this organic fertilising, and plant growth is improved.

**8. Increases the quality of the harvest**

Healthy plants with high quality require a harmonious nutrient relation in the soil. SICO-GRANUDOL supports the storage of value-determining contents in the plant. Healthy soil => healthy plants > healthy profits.

**9. Protects soil fertility**

Lime, humus and clay are the basics for healthy, fertile soils. Only if the soil is supplied with lime again and again sufficiently, the remaining growth factors can produce permanently high and secure profits.

**6/ STORAGE**

Store dry, away from water & humidity.

**7/ PACKING**

In 25 kg net wpp+pe bags.

Other packings: on request.