



PRODUCT INFO
& DATASHEET

SICOFERT® GRANULAR NPK's

Introductory Notice

We produce and commercialise a wide range of standard and tailor-made (as per client's specifications) granular NPK formulas under the SICOFERT and various other brands either in the form of:

A. Chemically Complex (straight) NPK's: all ingredients accumulated in one single granule = every granule contains the same proportion of N + P + K. This range consists of very popular NPK's such as e.g.:

a) SOP based NPK's (LC = low chlor)

- eg:
- Sicofert Green Grower NPK 12.11.18S + 3MgO + 12S + TE (green granules)
 - Sicofert Grey Granule NPK 12.10.18S + 12.8S (grey granules)
 - Sicofert Red Granule NPK 12.12.17S + 2MgO + 8S + TE (red granules)
 - Sicofert Blue Granule nr. 1 12.12.17S + 2MgO + 20SO₃ + TE (blue granules)
 - Sicofert Blue Granule nr. 2 NPK 12.12.17S + 2MgO + 11S + TE (blue granules)
 - Sicofert Blue Granule nr. 3 NPK 12.12.17S + 2MgO + 8.8S + TE (blue granules)
 - Sicofert Blue Granule nr. 4 NPK 12.12.17 + 2MgO + 8.7S + TE (blue granules)
 - Sicofert Red Granule NPK 15.5.20S + 2MgO + 8S + TE (red granules)
 - Sicofert Green Granule NPK 15.5.20S + 2MgO + 10S + TE (green granules)
 - Sicofert NPK 8.16.24S + 3MgO + 0.05B
 - Sicofert NPK 12.6.18S + 3MgO
 - Sicofert NPK 15.15.15S
 - Sicofert NPK 16.16.16S(max. 0.6% Cl) + 3.2MgO
 - Sicofert NPK 25.5.5S + 1MgO + 1S

b) MOP based NPK's (C = chlor holding)

- eg:
- Sicofert NPK 15.15.15
 - Sicofert NPK 13.13.21
 - Sicofert NPK 20.10.10
 - Sicofert NPK 12.12.17 + 2MgO etc.

c) 50/50 SOP/MOP based NPK's (LC/C)

- eg: - Sicofert NPK 12.12.17 + 2MgO etc.

B. Tailor-made SICO-GRAN Granular blends (= a mix of complex NPK's)

SICO-GRAN is SICO's quality concept for SICOFERT NPK tailor-made quality blends.

With SICO-GRAN we give a strewing and conservation guarantee, which gives you full security about the quality of the blend. SICO-GRAN raw materials are specially selected on: uniform granule size, comparable specific weight and excellent mixability.

Please indicate us your requirements per ha and we calculate for you the right composition/formula.

- eg.
- Sicofert NPK 15.15.15 + 2MgO (MOP)
 - Sicofert NPK 20.10.10 + 2MgO (MOP)

C/ Tailor-made Granular bulk blends (dry mixed fertilisers)

To meet individual requirements of a particular crop or a particular field/area, production of high quality tailor-made SICO-GRAN concept granular blends (b) or bulk blends (c) should be envisaged.

Composition of such granular blends depends on soil characteristics, cultivated crops and planned crop's level.

Please indicate us your requirements per ha and we calculate for you the right composition/formula.

With regards to **economical efficiency high quality SICO granular blended NPK's are not worse than similar complex (straight) fertiliser grades!**

Sometimes even, given requirements of a particular field/soil and crop, their economical efficiency can considerably exceed standard complex fertiliser (!!), **as such mixtures/blends enable to minimize expenses on the fertilisers and maximize the crop yields!**

This practice becomes increasingly popular due also to worldwide increasing prices for fertilisers.

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World-wide experience shows, that because of wrong introduction of fertilisers on soil (and even on crops!), in many cases up to 30% is applied as ballast = these are unproductive expenses of an agricultural producer. The greatest fertiliser efficiency is evident when their macro (N, P, K) nutrients and microelements are in balance, i.e. when they are introduced into the soil at an optimal combination on the basis of a particular field's cartogram of the soil quality under a particular crop, planned crop yield, climate etc. Hence the need of good fertilisation programs - consult your local qualified agronomist!

SOME EXAMPLES OF SICOFERT TAILOR-MADE BLENDED NPK FORMULATIONS FOR SPECIAL CROPS:

- for maize: 'Sicofert Maize' NPK 8.9.13+ 2MgO (MOP based)
- for onions: 'Sicofert Onion' NPK 11.11.21 + 3 MgO (MOP based)
- for rice: 'Sicofert Rice' NPK 21.8.8 + 2MgO (MOP based)
- for millet: 'Sicofert Millet' NPK 16.10.16 + 2MgO (MOP based)
- for soja: 'Sicofert Soja' NPK 0.18.33 + 7.5MgO (MOP based)
- for cacao: 'Sicofert Cacao' NPK 10.20.20 + 2MgO + 0.1B (MOP based)
or 'Sicofert Cacao' NPK 0.23.19 + 10CaO / 5S + 5MgO (= formula for Ghana)
- for coffee: 'Sicofert Coffee' NPK 18.12.2 + 1MgO + 0.1B (MOP based)
- for pineapple: 'Sicofert Ananas' NPK 12.7.12 + 4MgO (SOP based) (apply 828 kg/ha in 3 applications, one month after planting, 6 months after planting and 9 months after planting)

Sometimes the farmers are facing the problem of loss during the harvest. The most frequent question then is: "What's wrong? Both nitrogen and potassium were applied. And my equipment is excellent".

The answer is simple: it is just because of an unprofessional approach. We got used to think that our soil is the best soil. However, it can be much better. Just some attention and care could be sufficient. Nutrients should not be applied into soil under "the-more-the-better" principle, in such a way we can 'overfeed' it. Everything should be done according to soil/requirements. Thus, you will be able to control your crop on your own, avoiding useless extra fertiliser usage. **Here we come in as a reliable quality supplier of a complete range of fertilisers. Please consult us!**

NPK PLANT NUTRITION

What are the NPK nutritional elements required for ?

NITROGEN (N)

Nitrogen is the true growth engine, because it interferes in the composition of vegetable tissues as well as on animal tissues (proteins). Lack of nitrogen causes plants to be weaker and of light(er) colour.

PHOSPHORUS (P)

Phosphorus is a component of the cellular walls of the plants. Moreover, it is indispensable to store (extra) energy for the growth and the formation of the fruit.

POTASSIUM (K)

Potassium regulates the growth of the plants as well as their water content. Because of this, potassium increases the resistance against frost and drought. Plants that are sensible to chlorine need potassium that comes from potassium sulfate (low in chlorine)

MAGNESIUM (Mg)

Magnesium is a component of chlorophyll and plays a part in the process of photosynthesis.

SULPHUR (S)

Sulphur plays an important role on different levels in the growth of plants. **It becomes more and more indispensable to fertilisers**, because of the decrease in rejections of sulphur in the atmosphere.

TRACE ELEMENTS

Boron (B), Iron (Fe) Zinc (Zn), Copper (Cu), Manganese (Mn) and Molybdenum (Mo) are trace elements that interfere in many biochemical reactions of plants.

SICO® FERTILISERS: EVERY TIME THE RIGHT SOLUTION

GOOD FERTILISATION PROGRAMS START WITH SICOFERT®!

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Tailor-made SICO-GRAN based Granular NPK blends

Sales rationale

09/2022

* **Fertilisation has become a science**

For your arable crops, pasture etc you want to apply the right quantities of macro- and micronutrients. No need to go round with the fertiliser spreader for each element. Not if you use SICO-GRAN based NPK blends.

With Sico's line of combined fertilisers you can spread all these nutrients in one single operation in the perfect ratio in any desired formula, saving a lot of money. Finish with over - or under fertilization = optimum benefit of your investment.

* **Blend calculation technology**

SICO-GRAN is SICO's quality concept for SICOFERT (and our other brands) of NPK tailor-made quality blends.

Our special computerized blending programme is based on advanced technology to calculate SICO-GRAN quality blends and formula management.

In each instance, specifications are prepared for the blend to be produced. The optimum SICO-GRAN blend is calculated based on the crop requirements, taking into account soil data and other (organic) compounds used by our customer (if available). All formulas are customer-specific blends and are numbered/stored by us so same can be ordered again later.

* **SICO-GRAN quality blends behave as a straight (complex/compound)**

With our SICO-GRAN blends you put all the nutrients right where you want them. The distribution of granules over the field when using a spreader is excellent. Despite many different components the SICO-GRAN blends behave like a straight (complex/compound), because SICO-GRAN blends contain uniform granulated building blocks.

Unlike the blend compounds (bulk blends) or simple fertilisers, such as Urea with MOP, the building blocks in SICO-GRAN have a comparable granule diameter and specific weight.

* **Possibility to add micronutrients (trace elements)**

Next to macronutrients crops require also trace elements (= micronutrients) for optimum health & growth. Where required (soil deficiencies) you can use separate SICO (chelated) micronutrients (SICOCHEL / CHELASTAR etc) OR micronutrients can be added to the SICO-GRAN blend.

* **Possibility to use SICUREA Urea nitrogen coated with Urease inhibitor** (see our SICUREA range) in SICO-GRAN based NPK blends (if also ureic nitrogen is used).

* **Some examples of SICO-GRAN based Granular NPK blends**

- SICOFERT CACAO blended NPK 7.20.13 + 5 MgO + 6 CaO + TE
- SICOFERT BANANA blended NPK 15.5.30 + 1 MgO + TE
- SICOFERT BANANA blended NPK 16.2.25 + 6 CaO + TE
- SICOFERT COTTON blended NPK 12.20.18 + 7 CaO + 7 SO₃ + B
- SICOFERT POTATO blended NPK 11.10.22 + MgO + TE (SOP/MOP)
- SICOFERT blended NP 23 + 23
- SICOFERT blended NP 24 + 14
- SICOFERT OIL PALM STARTER NPK 14.32.12
- SICOFERT OIL PALM NPK 15.13.26 + 4 MgO + 0.1 B (immature)
- SICOFERT OIL PALM NPK 12.8.32 + 2.3 MgO + 2.2 S + TE (immature)
- SICOFERT OIL PALM NPK 11.7.35 + 3 MgO + 0.3 B (mature)
- SICOFERT GRASS SPRING AND SUMMER NPK's for grassland (ask our program)
- SICOFERT NPK 14.22.9 (SOP)
- SICOFERT NPK 16.8.24 (SOP)
- SICOFERT NPK 16.8.24 + B
- SICOFERT NPK 17.17.17
- SICOFERT NPK 18.6.11 (SOP)
- SICOFERT NPK 20.7.13
- SICOFERT NPK 6.23.23

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