

SIAPOR®

CHALLENGE®

**ORGANO-Mineral FERTILIZER
NPK (MgO) 5-12-12 (2) with Zinc (Zn)**

LARGE AMOUNT
OF
HUMIFIED ORGANIC CARBON
(HUMIC AND FULVIC CARBON)

It is an NPK organo-mineral fertilizer with magnesium and zinc, particularly suitable on extensive crops such as **wheat, corn, sugar beet**, in soils with low potassium level; it is advised to meet the increased needs of phosphorus and potassium required by young plants nursery: **vineyard, fruit trees, citrus**, etc.

It speeds up the responsiveness of roots and crops starting in the early stages of the growing period.

CHALLENGE, with POTASSIUM CHLORIDE, should be used on any crops less sensitive to salinity, preferably checked through analytical controls.

NPK, Mg and Zn nutritive units, while reacting with the humified organic matter (**humic and fulvic acids and humins**), acquire a considerable degree of protection thus allowing an optimal agronomic yield.

This allows:

- **high and extended nutrient availability** for the entire crop cycle;
- **reduction of losses** due to insolubility, leaching and evaporation;
- **flexibility of the fertilizing cycle** with the option of applying it before the normal period of nutritional use;
- **saving of fertilizer usage**

The addition of meso and micro-elements can raise important physiological processes:

MAGNESIUM optimizes the photosynthetic cycle and the phosphate metabolism.

ZINC is an active element in many enzyme systems: it encourages the auxin growth, directly affects the nitrogen metabolism and the phosphorus absorption, beneficially fostering crop growth in the early vegetative stages.



- **Packaging:** 25-500 Kg
- **Shape:** Minipellets
- **NPK ratio:** 1 : 2,4 : 2,4

Manufactured by



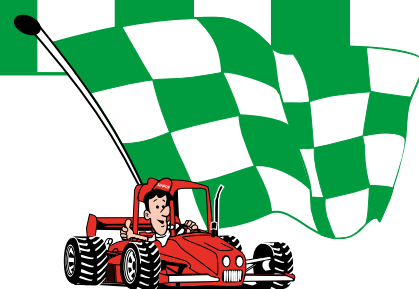
UNIMER
S.p.A.

Via Paleocapa, 7 - 20121 Milano

Approval Number:
Plant of Vidor:
ABP1193UFERT2 – ABP11930FSIPP2
Plant of Arquata del Tronto:
ABP1177UFERT2

COMPANY WITH
SYSTEM CERTIFIED
BY DNV • ISO 9001

SIAPOR® CHALLENGE®



ORGANO-Mineral FERTILIZER NPK (Mg) 5-12-12 (2) con Zinco (Zn)

COMPOSITION	
N total	5%
N organic	1,2%
N ammoniacal	3,8%
P ₂ O ₅ total	12%
P ₂ O ₅ neutral amm. citrate and water soluble	10%
P ₂ O ₅ water soluble	5%
K ₂ O water soluble	12%
MgO total	2%
Zn total water soluble	0,01%
Organic Carbon (C)	15%
Humic and fulvic Carbon (C)	3%

- **Mineral fertilizers:** NP 18-46 (diammonium phosphate), triple superphosphate, potassium chloride, phosphatic scraps, potassic scraps.
- **Organic components:** Dried cattle and horse manure, dried poultry manure, humified peat, green composted soil conditioner.

DOSES BY CROP		
CROP	DOSE Kg/ha	USE
Corn and sorghum	500-600	During the last pre-sowing operations
Wheat, rice and other cereals	400-600	During the last pre-sowing operations
Fruit trees	600-800	At the end of the harvest and/or end of winter

Industrial, oil and protein crops	400-700	During the last pre-sowing operations
Viticulture and olive trees	400-700	At the end of the harvest and/or end of winter
Horticultural	600-800	During the last pre-sowing/transplanting operations
Melon, watermelon and cucurbits	600-1000	During the last pre-sowing/transplanting operations
Strawberry	600-800	Pre-transplanting
Beetroot and alfalfa	500-600	During the last pre-sowing operations
Flower and ornamental crops and recreational lawns	500-800	At vegetative revival or pre-transplanting

Reference guidelines for individual crops are purely illustrative and are changeable, in relation to the needs, the fertility levels and the provisions of various regulations.

For organic and organo-mineral fertilizers it is recommended to place the product slightly underground to enhance the nutritional efficacy.

Unimer reserves the right to make any changes to the formulations.

CHALLENGE C Rev 13 of 06/12/2024