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

SIAPOR®
CHALLENGE®

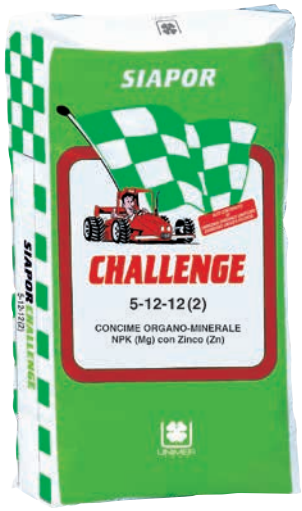
ORGANO-Mineral FERTILIZER
NPK (MgO) 5-12-12 (2) with Zinc (Zn)

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.



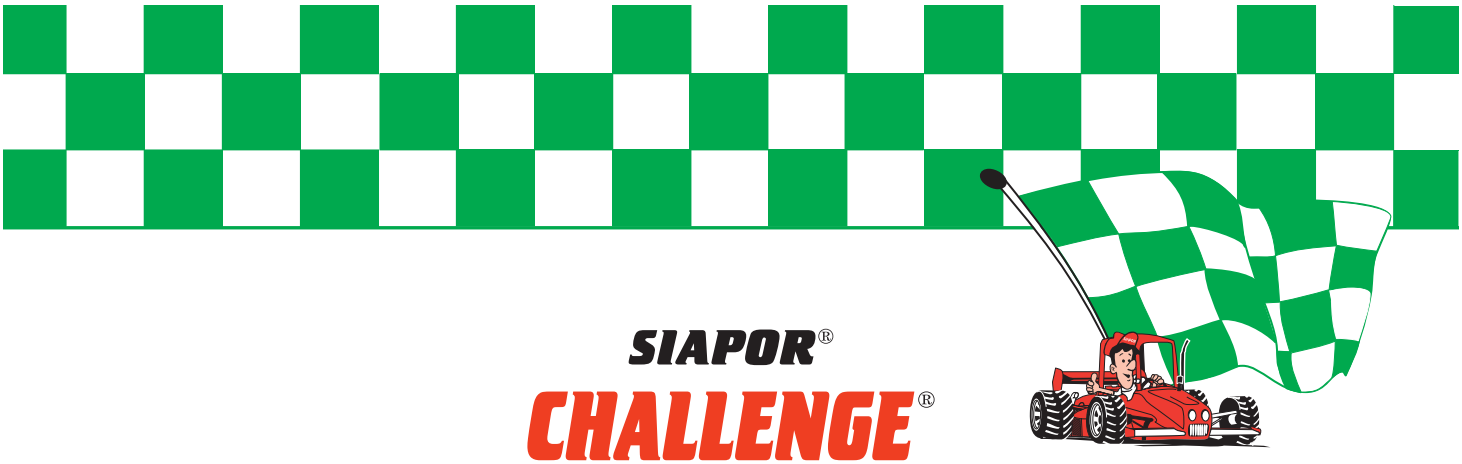
- **Packaging:** 25-500 Kg
- **Shape:** Minipellets
- **NPK ratio:** 1 : 2,4 : 2,4

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

Manufactured by

UNIMER 1969
Unimer S.p.A.
Via Paleocapa, 7 - 20121 Milano

COMPANY WITH SYSTEM CERTIFIED BY DNV • ISO 9001



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NPK (Mg) 5-12-12 (2) con Zinco (Zn)

COMPOSITION	
N total	5%
N organic	1,2%
N ammoniacal	3,8%
P_2O_5 total	12%
P_2O_5 neutral amm. citrate and water soluble	10%
P_2O_5 water soluble	5%
K_2O water soluble	12%
MgO total	2%
Zn total water soluble	0,01%
Organic Carbon (C)	12%
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-sawing operations
Wheat, rice and other cereals	**400-600**	During the last pre-sawing 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-sawing 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-sawing/ transplanting operations
Melon, watermelon and cucurbits	**600-1000**	During the last pre-sawing/ transplanting operations
Strawberry	**600-800**	Pre-transplanting
Beetroot and alfalfa	**500-600**	During the last pre-sawing 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.

CHALLENGE C Rev. n°11 - November 2023