



EN Technical Data Sheet

Version: 2.2 Version Date: 2025-12-29

Granupermanent®CRF 18+7+15+2CaO+2MgO+TE

PFC 1 (C)(I)(a)(ii)

Controlled Release NPK mineral macronutrient fertilizer with calcium, magnesium and micronutrients

Analysis & declared nutrient contents by mass:

Component	Unit	Typical	
N, total	%	18.53	
NH ₄	%	7.25	
NO ₃	%	5.47	
urea	%	5.81	
P₂O₅	%	7.16	3.5% water-soluble phosphorus pentoxide 3.5% phosphorus pentoxide soluble in neutral ammonium citrate
K₂O	%	15.20	water-soluble potassium oxide, low in chloride
CaO	%	2.91	water-soluble calcium oxide
MgO	%	2.47	water-soluble magnesium oxide
SO ₃	%	12.66	water-soluble sulphur trioxide
B	%	0.0060	water-soluble boron
Cu	%	0.0060	water-soluble copper
Fe	%	0.1200	
Mn	%	0.0400	water-soluble manganese
Mo	%	0.0002	water-soluble molybdenum
Zn	%	0.0250	water-soluble zinc

Benefits of Mivena Durable®CRF biodegradable coating:

- Highest release (>90%) effectiveness within longevity period
- Optimal, unique and consistent low-start, high-end release
- No exponential release at higher temperatures
- Minimal level of ammonium volatilization
- No swelling or leaching granules



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Granupermanent®CRF Controlled Release Fertilizer



Typical packaging: 20kg PE bag

Granules: typical size 1-4mm,
95% of which pass through 4.5mm sieve



Coated	Unit	Typical
N	%	31
P	%	-
K	%	-

Application – General recommendations

Longevity	Low feeding	Average feeding	High feeding
2-3 months	20 g/m ²	25 g/m ²	30 g/m ²
3-4 months	25 g/m ²	30 g/m ²	35 g/m ²
5-6 months	30 g/m ²	35 g/m ²	40 g/m ²

The rate of nutrient releases can vary according to the temperature of the substrate. An adjustment of fertilisation may be necessary. Please contact us for specific recommendations and avoid over-fertilisation. To be used only where there is a recognized need. Do not exceed the application rate.

Transport, storage & packaging

- Delivered on pallets in 20kg PE bags with UV-cover or in 500 / 1000kg big bags.
- Transport and store between 5°C and 40°C. Avoid large temperature changes. Keep dry and in a well-ventilated place. Protect against frost, moisture and direct sunlight. Keep in original packaging.
- After opening, re-cover any unused bags with original UV-cover for optimal protection.