



## EN Technical Data Sheet

Version: 2.2 Version Date: 2025-12-2025

### Granupermanent®CRF 22+5+9+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	
<b>N, total</b>	%	<b>22.56</b>	
NH <sub>4</sub>	%	7.42	
NO <sub>3</sub>	%	6.20	
urea	%	8.94	
<b>P<sub>2</sub>O<sub>5</sub></b>	%	<b>5.04</b>	2.5% water-soluble phosphorus pentoxide 2.5% phosphorus pentoxide soluble in neutral ammonium citrate
<b>K<sub>2</sub>O</b>	%	<b>9.58</b>	water-soluble potassium oxide, low in chloride
<b>CaO</b>	%	<b>2.67</b>	water-soluble calcium oxide
<b>MgO</b>	%	<b>2.80</b>	water-soluble magnesium oxide
SO <sub>3</sub>	%	9.99	water-soluble sulphur trioxide
B	%	0.0120	water-soluble boron
Cu	%	0.0120	water-soluble copper
Fe	%	0.1400	
Mn	%	0.0800	water-soluble manganese
Mo	%	0.0003	water-soluble molybdenum
Zn	%	0.0500	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	%	39
P	%	-
K	%	-

#### Application – General recommendations

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

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.