



Smart fertilization with Controlled Release Fertilizers (CRFs)

CRFs are smart fertilizers that release nutrients gradually - exactly when the crop needs them. That means less losses, more balanced growth and higher efficiency.

↓ UP TO 70%

of nutrients from conventional fertilizers are lost to the environment.

Source: Our World in Data, 2023

↑ UP TO 80%

nutrient use efficiency - compared to 30-50% for conventional fertilizers.

Source: FAO & IFA, 2022

WHAT ARE CRFs?

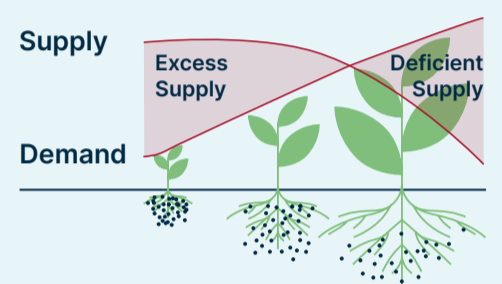
CRF MEANS SMARTER, MORE EFFICIENT AND MORE SUSTAINABLE FERTILIZATION.

- Controlled Release Fertilizers are granules that release nutrients gradually.
- Each granule contains essential nutrients and is coated with a thin layer that responds to soil temperature and moisture.
- This ensures that crops receive exactly what they need, when they need it.

COATED FERTILIZERS



CONVENTIONAL FERTILIZERS



Conventional fertilizers are immediately available - which cannot all be absorbed by the crop directly. CRFs release nutrients gradually, matching the crop's growth stage and demand. This means every granule is used efficiently.

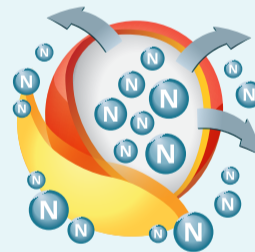
CONTROLLED RELEASE FERTILIZER MODE OF ACTION



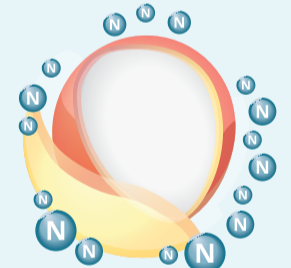
Once applied in the soil, moisture penetrates the coating and reaches the nutrient core



Nutrient inside starts to dissolve and begins to release back into the root zone by diffusion



Influenced by soil temperature, nutrient solution is released day-by-day through the coating thus reducing nutrient losses to the environment



The nutrients are fully released and the E-max coating disintegrates into the soil

BENEFITS

ONE

Only one application needed



Higher nutrient use efficiency



Little or no nitrogen leaching



Fewer losses - better for soil and environment



More uniform growth and stable yields



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