



# OM Peat Technology



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## Technology Summary

OM Peat is a control release fertilizer manufacturing technology combining an organic carrier with standard macro and micro nutrients.

The homogeneous granule outperforms all current slow and control release technologies, with nitrate leaching cut by up to 60%, and Nitrogen requirements cut by as much as 50%.

This technology performs especially well in sandy soils.

Welcome to our world!!

## Quick Comparison of Available CRF Technologies

Feature	OM Peat CRF	Competition
Release Mechanism	100% Homogeneous Granule	Blended Coated Granules
Organic Content	Up to 27%	0%
Nitrogen Leaching	15%	46% to 59%
Active Release Cycle	3 - 5 Months	3 Months
Micronutrient Content	Yes	No
Release Method	Plant Based Release	Time/Environment Release
Moisture Retention	Yes	No
Microbial Activity Enhancer	Yes	No

## Feature Details

- **Release Mechanism**

Each granule is made up of particles 300 microns in size or smaller, and when in contact with moisture, disseminates.

- **Organic Content**

The compound is peat, with a high organic content, and due to its high content of Carbon, creates a nutrient on demand mechanism.

- **Nitrogen Leaching**

Based on 3 months leaching tests in a controlled environment. See leaching test results.

- **Active Release Cycle**

Due to the Carbon content controlling the release cycle, minimum leaching occurs, and is less affected by fluctuations in temperature and moisture levels, thus extending the release cycle.

- **Micronutrient Content**

As per customer requirements.

- **Release Method**

Timed release methods are dependent on temperature and moisture for activation, and any surplus nutrients are usually lost. Plant based release is dependent on the plants needs over time, and surplus nutrients are retained by the carbon for future plant uptake, with minimal leaching.

- **Moisture Retention**

Peat retains up to 4 times its weight in moisture.

- **Microbial Activity Enhancer**

Due to the high organic and carbon content of peat, microbial activity is increased.