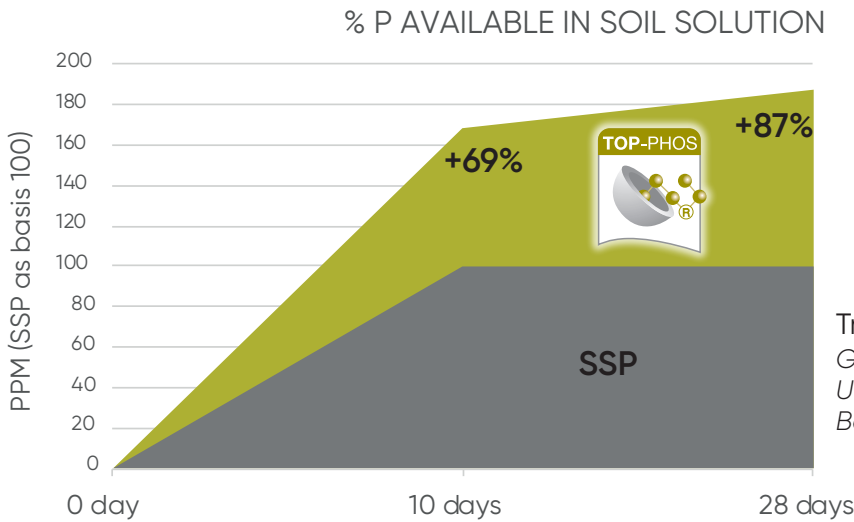




PLANT NUTRITION

High efficiency granular



TOP-PHOS STAYS AVAILABLE IN SOLUTION LONGER

78%
MORE AVAILABLE ON AVERAGE

Trial soil pH 8.5
Giovannini & al, 2012; University of Bologna and CIPAV.

Research has shown that **TOP-PHOS** stays more available in a wide range of soil pH, stimulates root development and improves overall nutrient use efficiency. As a new material with a low salt index, **TOP-PHOS** is the top choice for seed row placement.

TOP-PHOS

- Soluble at any pH
- **Salt index 9**
- Seedrow safe
- 100% Orthophosphate



MAP 11-52-0

- Insoluble at high pH
- **Salt index 26**
- Acidifying





PLANT NUTRITION

High efficiency granular



HIGH EFFICIENCY PHOSPHORUS

with patented compound nutrient technology;
designed to deliver in both low and high pH soils

TOP-PHOS increases the available phosphorus in all types of soil. It also boosts hydrolytic and microbial activity in soil, enhances root quality and the uptake of phosphorus by the plant.

More agronomically efficient than existing products, **TOP-PHOS** improves the health of the plant, encouraging biomass production and the availability of other crucial nutrients including Nitrogen and Sulphur.

KEY BENEFITS

- Complexing agents protect phosphate against tie up in low and high pH soils
- Water-soluble phosphate
- Root biostimulant effect
- Low salt index (9)



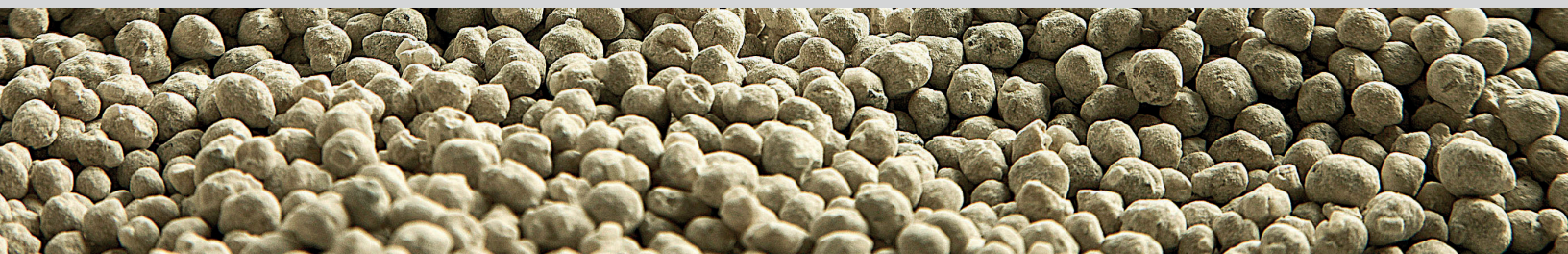
ANALYSIS

- Bulk density 75 lb / ft³
- pH 7.6



PACKAGING

- 600 kg /1320 lb tote bag
- Bulk railcar

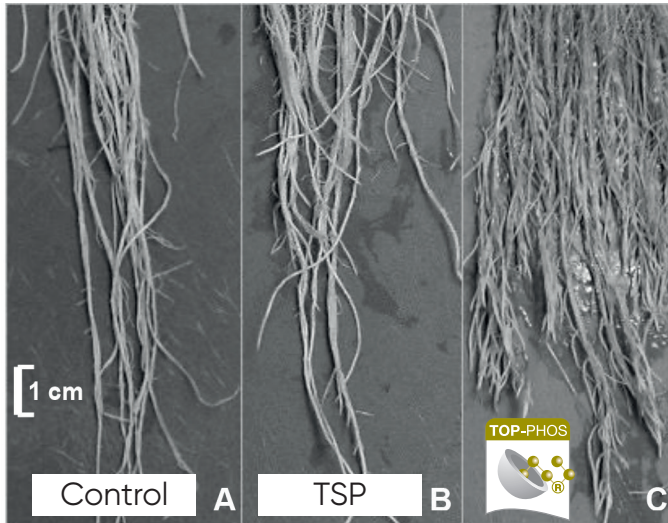




PLANT NUTRITION

High efficiency granular

ROOT STIMULATION EFFECT



**A PROTECTED
PHOSPHATE THAT
FURTHER STIMULATES
ROOT DEVELOPMENT**

*2009 University Navarra
pH 7.5
Clay Loam –
Wheat 63 days*



PROTECTED

- Minimal tie up in low or high pH
- Seed safe low salt index



ENVIRONMENT

- Efficient release and highly plant available
- Reduced risk of runoff and leaching



EFFICIENT

- More efficient fertilizer units
- Maintain phosphorus availability



ROOT STIMULANT

- Patented root enhancing technology
- Increased nutrient uptake

TOP-PHOS IS A SCIENTIFIC AND INDUSTRIAL REVOLUTION

- New manufacturing process – unique chemical signature
- New complexed raw material
- EU Reach registered
- Ag In Motion 2019 Innovation Award winner
- Provides soluble phosphates in high and low pH soils
- 100% Orthophosphate

