

SOUTH AFRICAN MADE: FOR AFRICAN SOILS



Proudly manufactured in South Africa for the African Market

BOOST YOUR SPRING PASTURES WITH SSP-MAXX

SSP-MAXX, is a phosphorus-rich fertilizer, playing a vital role in plant growth and development. Replacing depleted nutrient reserves through nutrient supplementation is the key in maximizing crop growth and maintaining soil fertility. It is especially beneficial to pastures.

IMPORTANCE OF PHOSPHORUS

Phosphorous plays a vital role in plant photosynthesis, respiration, energy storage and transfer, cell division, and cell enlargement. Phosphorus is essential for plant growth and promotes plant resistance to cold and moisture stress, as well as contributing to disease resistance. Phosphorus deficiencies are more common in winter, due to lower temperatures decreasing the movement of phosphorous in the soil.

PHOSPHORUS AVAILABILITY

SSP-MAXX contains primary orthophosphate ($H_2PO_4^-$), a water-soluble form of phosphorus, which is readily available for plant uptake. However, it is difficult to keep phosphorus available to plants as it can chemically link to other elements such as calcium and iron, and form compounds which are unable to move to the roots. Typically, farmers plan to have about 20-30% efficiency in their water-soluble phosphorus at application. The phosphorus content of Single Superphosphate (SSP-MAXX) is predominantly in the water-soluble phosphorus form. The second-largest component of phosphorus is in the citrate-soluble form which is released under acidic conditions in the soil and hence is slower to become available.

WHY USE SSP-MAXX?

- SSP-MAXX-made Single Superphosphate (SSP) provides the ideal balance of phosphorus, Sulphur and calcium for crop and livestock profitability.
- Proudly South African-made, manufacturing phosphorus to the highest standards
- Provides a strong source of phosphorus, readily available for plant uptake.
- Contains calcium and Sulphur to improve soil structure and maintain nutrient availability with crop growth.



SSP-MAXX typical analysis & available phosphorus content

P - TOTAL	P – CITRIC SOLUBLE	S	Ca	Moisture Content
>9.2 %	>8.3 %	11.76 %	21.03 %	<3.0 %

Note: Total P% can be converted to total P_2O_5 by multiplying Total P% with a factor of 2.29

SULPHUR AND CALCIUM AVAILABILITY

SSP-MAXX also contains calcium sulphate, commonly known as gypsum, which is formed during the manufacturing process. Sulphate is a readily available form of Sulphur available for immediate plant uptake. Sulphur is an important nutrient for grasslands and is closely associated with nitrogen uptake and efficiency. Sulphur deficiency can result in a reduced yield, as the plant growth relies on both Sulphur and nitrogen consumption.

The calcium content (Ca) in SSP at 21.03% is often overlooked, which is significant soil ameliorant. Every ton of SSP-MAXX contains 210.3kg of calcium, which is an easily absorbed form of calcium sulphate (gypsum).

