



Mined in the UK, ICL is the first – and only producer – in the world to mine polyhalite, marketed as Polysulphate™.



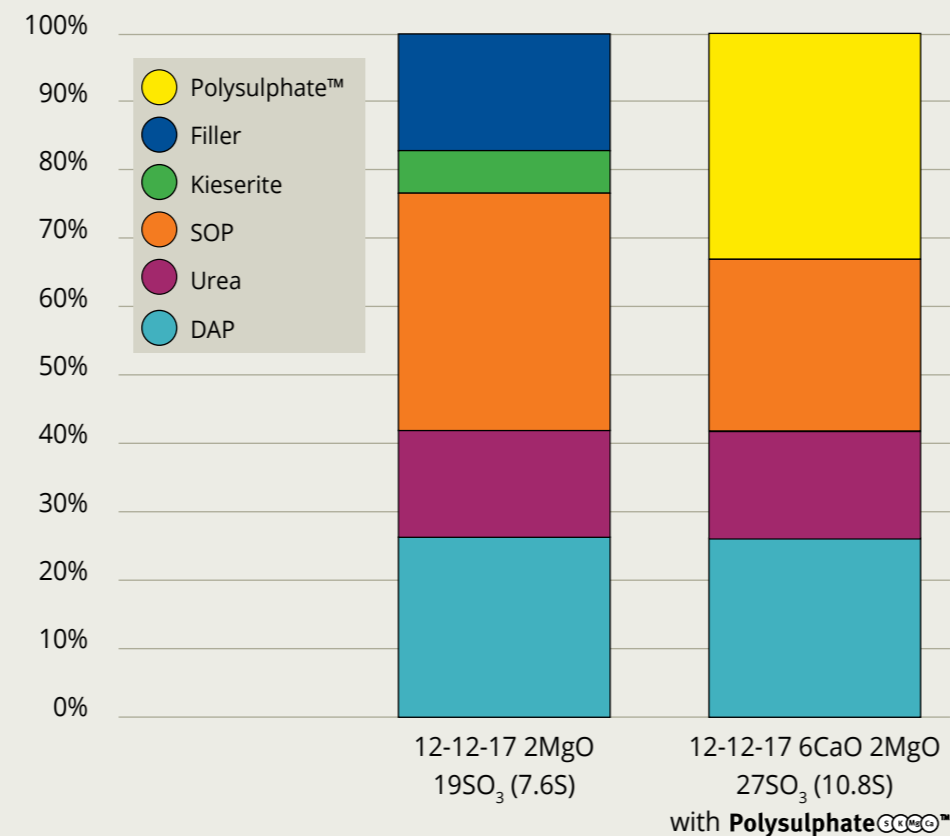
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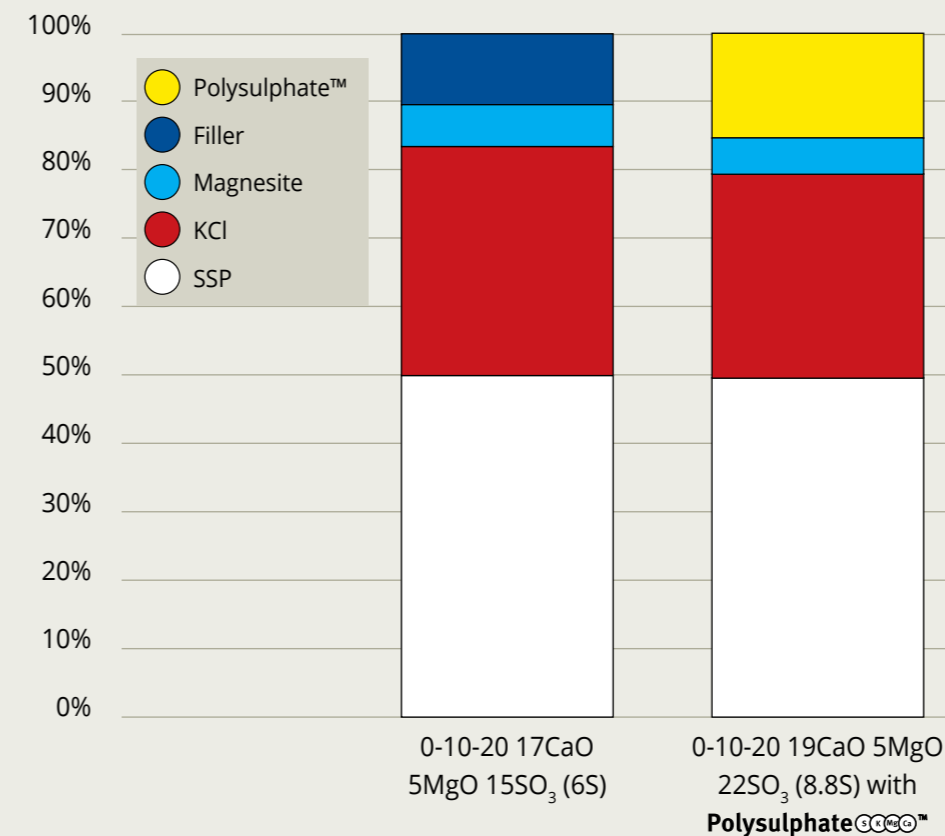
## Providing more nutrients

Better value with **Polysulphate<sup>SKMgCa</sup>**  
 Extra S and Ca nutrients in the formula  
 no filler is needed

Comparison of NPK 12-12-17+2MgO production with Polysulphate and alternative source



Comparison of PK 0-10-20+5MgO production at ICL plant with Polysulphate and alternative sources



## Polysulphate™ for NPK granulation

Multi-nutrient fertilizer  
 Innovative, versatile and unique



## Multi-nutrient advantages



**48% SO<sub>3</sub>**  
(19.2% S)



**14% K<sub>2</sub>O**  
(12% K)



**6% MgO**  
(3.6% Mg)



**17% CaO**  
(12% Ca)

Polysulphate is a multi-nutrient fertilizer containing four fully soluble and available plant nutrients: sulphur (S), potassium (K), magnesium (Mg) and calcium (Ca). These essential nutrients can be incorporated into any finished fertilizer product or range.

In modern agriculture, there is a growing need for NPK fertilizers as well as other key nutrients. Existing NPK fertilizers can be extended with the addition of S, K, Mg and Ca found in **Polysulphate**.

**Polysulphate** provides added value by replacing any fertilizer filler with valuable plant nutrients.



Available in granular and standard grade



Ideal natural source for all crops



Fully soluble with all nutrients available for plant uptake



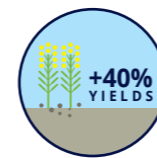
Ideal for chloride-sensitive crops



Ask our experts to assist in adapting your NPKs with Polysulphate™ included

## Versatile combinations

- Using **Polysulphate** as a raw material allows preparation of a wide variety of NPK fertilizers tailored to meet the needs of various crop, soil and climatic conditions.
- The low chloride content of **Polysulphate** reduces chloride levels in your finished NPK+S products, making it ideal for chloride-sensitive crops.
- Polysulphate** is an excellent source of sulphate, which can be combined with nitrogen to ensure a proper timing of the S in combination with N.
- Polysulphate** is an ideal constituent of NPK fertilizers as a means of introducing sulphur into any grade. It is ideal for incorporating sulphur and other essential nutrients into non-nitrogen grades.
- Polysulphate** provides magnesium in the final product to replenish crop removal of Mg in soil.



Increases yields by up to 40%



Approved for organic agriculture



Completely natural without any added chemicals



Low carbon footprint



## Unique properties

- Polysulphate** helps granulation and increases output due to the presence of calcium and sulphate in the product.
- Polysulphate** is a harmless, unreactive raw material and is not included in the category of “dangerous goods or harmful substances”.
- Polysulphate** is pH neutral; therefore no ammonia is released when included with ammonium products, unlike those that include MgO.
- Due to **Polysulphate**'s high crystal strength, there is less likelihood of dust during production and handling.
- EU registered fertilizer. No additional regulatory requirements.

## A new alternative for your NPKs

- Compatible with all main raw materials: ammonium nitrate, urea, superphosphates, MOP, SOP – both in handling and storage.
- NPKs based on **Polysulphate** have lower production cost and energy requirement compared with traditional SOP or MOP-based NPKs.
- Polysulphate** provides an alternative source and supply for the nutrients contained in SOP and kieserite.