



Respect the past, live in the present, deliver for the future.

Natural Mining Process

Polysulphate was first found almost 200 years ago in the U.K. Only recently has a large-scale deposit been discovered and now mined by ICL approximately 4,000 feet underneath England's North Sea.

Polysulphate is mined using a simple, efficient, sustainable process that results in a 1-to-1 ore to product ratio, resulting in a footprint of 0.0029 per kg CO₂eq. Polysulphate has the lowest carbon footprint of any commercial fertilizer.

ICL is the first, and only, producer in the world to mine polyhalite, marketed as Polysulphate®.

Granular Polysulphate

Chemical Analysis	Expressed As	Typical	Guaranteed
Potassium	Water soluble K ₂ O	14.1%	14%
Sulfur	S	19.4%	19.2%
Magnesium	Mg	3.7%	3.6%
Calcium	Ca	12.5%	12.2%
Chlorides	Cl		3%
Moisture	H ₂ O	0.4%	1.0% max.

Particle Size Distribution			
Mesh Size			Typical Retained Range (%)
mm	Tyler	US	
4.75	4	4	0-2
4.00	5	5	5-15
2.80	7	7	50-80
2.36	8	8	75-95
2.00	9	10	88-99
1.18	14	16	99

Physical & Chemical Properties	
Bulk Density	93.6 lb/ft ³
pH	Neutral



622 Emerson Dr., STE 500
St. Louis, MO 63141
www.icl-growing-solutions.us
Premium.Fertilizers@icl-group.com

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POLYSULPHATE®

Multi-nutrient fertilizer
Innovative, versatile and unique

www.icl-growing-solutions.us

SA5168
71025

What is Polysulphate?

Polysulphate is a 4-in-1 natural fertilizer containing four essential plant nutrients.



Sulfur

- Essential building block for proteins
- Required for amino acid synthesis
- Necessary for high nitrogen use efficiency

Potassium

- Secures yield and quality
- Reduces susceptibility to plant diseases and drought
- Essential for efficient use of nitrogen

Magnesium

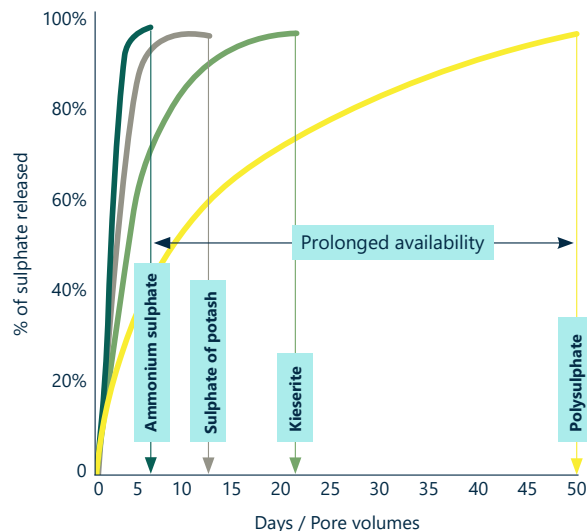
- Fundamental for photosynthesis
- Central part of chlorophyll molecule

Calcium

- For a strong and healthy crop
- A major building block in cell walls
- Reduces susceptibility to diseases

Season Long Availability

Polysulphate's unique release rate supplies balanced nutrients throughout the growing season to ensure a healthier and more productive crop meeting peak plant nutrient demand, plus reducing the risk of loss through leaching.



Release of Sulfate

Polysulphate vs. other sources (granular grades)
University of Nottingham, UK, 2016



Fall applied, spring approved.

Polysulphate's expanded application window gives you the flexibility to apply when your schedule allows.

Unique Characteristics

- **Nutrient absorption** – a slow sustained release pattern results in less leaching, lowering your input costs, and improving soil health
- **Water soluble nutrients** – All nutrients are in the sulphate form making them readily available to support plant growth throughout the growing season
- **Seed safe** – low chloride fertilizer that is safe to apply to all crop types
- **Storage and transportation** – low hygroscopic fertilizer won't take up and retain excessive moisture, providing superior storage properties
- **Organic** – naturally mined without chemical processing so it's safe to use in your organic farming systems; OMRI certified
- **pH neutral** – calcium sulfate creates a slow-release fertilizer, remediates sodic soils, and improves soil structure



POLYSULPHATE®

Agricultural Trial Results

Polysulphate has been trialed over 1000 times globally, ask for data in your region.

For specific recommendations consult your ICL Growing Solutions Technical Sales Manager.

**featured trial data 2017-2024*

Corn

8 US trials

↑ **13.5%**
Average yield increase

Potatoes

9 US trials

↑ **23.4%**
Average yield increase

Cotton

9 US trials

↑ **22.8%**
Average yield increase

