

Supreme 85

Organic



Premium Sulphur Fertilizers

Sulfur: The Fourth Major Nutrient

- Important to crop yield and quality
- Improves soil conditions
- Promotes efficient absorption and metabolism of NPK
- Essential to synthetic and catalytic reactions



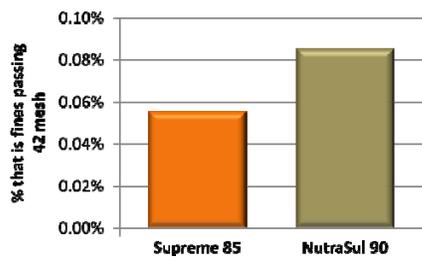
Benefits of Supreme 85 Organic:

- Effective in soil amendment and lowering soil pH
- High Sulfur analysis reduces input costs of transportation, storage and handling
- Season-long Sulfur availability
- No risk of seed damage when placed with seed
- Low risk of leaching losses
- Pastille form minimizes dust generated from handling, to reduce airborne dust and clogging in application units
- Allows the grower to select the form of Nitrogen and the preferred application time
- Autumn broadcast distributes workload and improves pastille disintegration for the spring

About Supreme 85 Organic:

- Supreme 85 Organic has **50% more Bentonite Clay** than 0-0-0-90 products which results in:
 1. Higher degradability – more complete disintegration to very fine particles creates higher surface area exposure to soil microbes for faster conversion to Sulfate
 2. Enhanced shelf life – degradability remains unchanged over longer periods of storage
 3. 33% harder pastilles – higher durability reduces dust generated in handling
 4. Airborne dust (fines less than 75µ in size) is 18.2% less hazardous for ignition than airborne 0-0-0-90 dust (2010 testing)

Impact Test for Dust



Impact tests simulate wear on pastilles from fertilizer handling. The lower dust in Supreme 85 Organic impact tests demonstrates higher durability than 0-0-0-90s (~35% improvement). Lower dust improves product safety and comfort in handling.

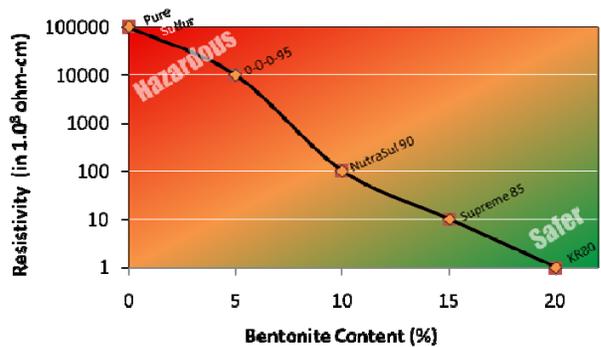


Supreme 85 Organic is OMRI listed

Specifications:

- Guaranteed Analysis: 85% Sulfur (Actual)
- Angle of Repose: 29 degrees
- Particle Size: Size guide number (SGN): 260
- Bulk Density: 75 lbs per ft³ (1201 Kg per m³)
- Breakage: Less than 0.2% is -42 mesh at truck loading

Bulk Resistivity of Sulfur-Bentonite Products



Resistivity measures the tendency to build up electrostatic charges in stored Sulfur. With 15% Bentonite, Supreme 85 Organic lowers the risk of static build-up, static charges bleed off more readily. Supreme has 10 times lower Resistivity – a considerably safer choice than 0-0-0-90s.

Supreme 85 Organic

KEGRIVER

Keg River Sulfur: Specifications



Product Description:

- Supreme 85 Organic is a Sulfur-Bentonite fertilizer that contains a carefully chosen Bentonite Clay that thoroughly breaks down the pastille when activated by water.
- Not all clays provide useful swelling and hydration. Using a *good* clay ensures that Supreme 85 Organic degrades to very fine particles, creating very high surface area exposure to soil microbes for a good oxidation rate in soil.



Application Recommendations:

- Applied alone or blended with other fertilizers.
- Application rate is based on agronomic recommendations from soil tests & crop removal rates of Sulfur.
- If soil Sulfur is deficient, soluble Sulfate should be applied to crops requiring high Sulfur (e.g. oil seeds and legumes).
- Supreme 85 Organic can be used in Soil Amendment.
- Supreme 85 Organic can be banded or broadcasted; broadcasting in the fall has the benefit of exposing pastilles to freeze-thaw and moisture over winter for more thorough disintegration.
- Repeat applications of Supreme 85 Organic result in the improvement of soil populations of Sulfur processing bacteria—the soil becomes more efficient in processing Sulfur to Sulfate.

Packaging:

- Bulk Truck or Rail
- 2700 lb (1225 kg) MBB
- 50 lb (22.68 kg) Bags

Specifications:

- Guaranteed Analysis: 85% Sulfur (Actual)
- Angle of Repose: 29°
- Size guide number: 260
- Bulk Density: 75 lbs per ft³ (1201 Kg per m³)

Safety Considerations for Fertilizer Dealers

Fertilizer Dealers should be aware of safety considerations when handling degradable elemental sulfurs. These concerns are not usually as important to growers because sulfur is often received blended with other nutrients – this considerably reduces most safety considerations.

- Sulfur is classified as non-hazardous and non-toxic, but awareness of potential problems must be stressed to ensure safe handling of this material:

Minimize Dust Formation

- Handle solid sulfur no more than necessary.
- Use gentle conveyance systems such as conveyer belts at speeds of 250' per minute or less. Screw conveyors generate considerably more dust. Drag conveyors work well but should not be run dry.
- When finished unloading bulk material, another bulk product such as MAP or KCl can be used to chase sulfur residue from the system.
- Minimize transfer points and drops at transfer points to reduce attrition of sulfur pastilles.
- Where possible, use storage bins with steep bottom cones (e.g. 55° or 60°) to minimize pastille fractures as they fall to the bottom of the bin.
- Reduce drop heights to less than 12'.
- Dust control agent should be applied during load out. Keg River's dust control agent reduces fire hazard of the product by over 80%.
- Dust suppressants are less effective over time, and after repeated handling.
- Conveyor and storage systems should be grounded.
- Hand tools used in sulfur handling area should be non-sparking engine-driven equipment, equipped with spark arrestors and protected muffler and exhaust systems.
- Check inventory after unloading to ensure there is no fire. This is more risk of fire at the end of the transfer as the equipment is run dry and accumulated fines appear in the system.
- Avoid enclosed spaces.
- Wear suitable protective clothing, gloves and eye protection.