Uniformity of application is expressed as the coefficient of variation (CV). A CV of more than 20% generates stripes in the crop. Subsequently, uneven spreading increases the cost of crop production due to yield penalties and required corrective actions.

A lower CV means a more even distribution of fertilizer. Test results with 3mm POLY4 granules showed a CV of 5.52%. Similar testing of crushed rock chips measured a CV of 8.73%.

**POLY4 GRANULES WILL ALWAYS MEET CUSTOMER SPECIFICATIONS.**

- High-performing, premium product
- Effective nutrient release pattern that is focused on the needs of the crop
- Superior blending, handling, and storage characteristics
- Certified for organic farming systems

• Lower dissolution rate
• Uncontrolled nutrient release pattern
• Inferior blending and spreading characteristics
• Inorganic coating requirement for dust control
**Poly4 Granules** make nutrients available to plants quicker.

The percentage of nutrient recovery is higher with the use of Poly4 granules. Laboratory testing indicates that nutrients are released from the Poly4 granules in 40 hours, whereas it takes up to 180 hours to recover nutrients from a similar size chip of crushed rock.

**Dispersal**

CT scans of Poly4 granule show that it is porous. Water can interact with additional surface space and disperse quicker. The structure of Poly4 granules allows water to easily access nutrients and deliver them to plants more effectively.

A chip of crushed rock is a solid mass. This means that water cannot penetrate it, and so the nutrient release is reduced.

**Handling and Storing**

Coated chips of crushed rock generate dust, which can be a respiratory hazard and increases the product’s waste. Products that generate dust make fertilizer handling difficult and attract moisture, consequently increasing caking propensity and lowering shelf life.

Grown through a patented process to produce Poly4. The binder eliminates the need for coating, as it holds the granule together, lowering dust generation.

**Production**

Growing healthy plants begins with nutrient-rich soil. With four of the six macro nutrients: potassium (K), sulphur (S), magnesium (Mg) and calcium (Ca), Poly4 granules deliver higher outcomes in soil compared to chips of crushed rock applied at the same rate.