



## Replenish 0-17-0-12 Analysis

- Replenish™ utilizes elemental sulphur and a proprietary activated compost to optimize phosphorus release and plant uptake creating a blend with a guaranteed analysis of 0-17-0-12.
- Derived from VolcanoPhos
- VolcanoPhos originates from the Cargill Carbonatite-Phosphate Complex located near Kapuskasing, Ontario.
- Currently the only available North American sourced igneous rock containing apatite (phosphorous source).
- Igneous rock provides a different suite of trace minerals compared to sedimentary rock primarily in rare earth elements while being lower in aluminum content.
- Meets the Canadian Organic Standards (COS) and USDA (National Organic Program) requirements for use on certified organic farms as a clean mineral source to aid as a soil amendment.

### Compositional Analysis

Aluminum (Al <sub>2</sub> O <sub>3</sub> )	%0.63	Magnesium (MgCO <sub>3</sub> )	2.12%	Sodium (Na <sub>2</sub> O)	0.22%
Calcium (CaCO <sub>3</sub> )	35.20%	Phosphorous (P <sub>2</sub> O <sub>5</sub> )	23.70%	Sulfur (SO <sub>2</sub> )	1.82%
Iron (Fe <sub>2</sub> O <sub>3</sub> )	15.06%	Potassium (K <sub>2</sub> O)	0.04%	Titanium (TiO <sub>2</sub> )	0.08%

	ppm		ppm		ppm
Antimony (Sb)	7	Gallium (Ga)	8	Tellurium (Te)	2.8
Arsenic (As)	<3	Gold (Au)	<5	Thallium (Tl)	<2
Barium (Ba)	349	Lanthanum (La)	311	Tin (Sn)	<5
Beryllium (Be)	4.2	Lead (Pb)	20.6	Uranium (U)	34.6
Bismuth (Bi)	3.2	Manganese (Mn)	2073	Vanadium (V)	210
Boron (B)	<5	Molybdenum (Mo)	<2	Tungsten (W)	3.7
Cerium (Ce)	19.7	Nickel (Ni)	23	Yttrium (Y)	97.4
Cobalt (Co)	72.4	Scandium (Sc)	24	Zinc (Zn)	74

Chromium (Cr)	10.4	Selenium (Se)	<5	Zirconium (Zr)	24.6
Copper (Cu)	45.2	Silver (Ag)	<0.2		

#### Calculated into Elemental Analysis

Aluminum (Al <sub>2</sub> O <sub>3</sub> )	0.33%	Magnesium (MgCO <sub>3</sub> )	0.61%	Sodium (Na <sub>2</sub> O)	0.16%
Calcium (CaCO <sub>3</sub> )	14.08%	Phosphorous (P <sub>2</sub> O <sub>5</sub> )	8.60%	Sulfur (SO <sub>2</sub> )	0.91%
Iron (Fe <sub>2</sub> O <sub>3</sub> )	11.23%	Potassium (K <sub>2</sub> O)	0.03%	Titanium (TiO <sub>2</sub> )	0.05%

#### Application Rates

- VolcanoPhos release is accelerated with the addition of a carbon source (organic compost) and elemental sulphur to increase the speed of breakdown of the primary minerals .
- Replenish has three separate forms of product for application (granular, powder & blended).
- Granular product can be seed placed or broadcast applied, powdered form can be utilized in suspension for irrigation or greenhouse applications, blended product is for broadcast application.
- For optimal results, please follow a complete fertility program that includes regular soil testing.