

GLACIAL DUST

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PRODUCT

TARGET® Glacial Dust can replace key elements that have been depleted from soil over the years. Replacing these missing minerals makes the soil healthier, which makes plants healthier. TARGET Glacial Dust supplies silicate minerals in a form readily used by nature to create healthy soil. TARGET Glacial Dust helps the soil recreate the colloids (minerals and humus) which are needed to improve soil structure, moisture holding properties, nutrient availability and bacterial action.

USES & ADVANTAGES

TARGET Glacial Dust can:

- Raise pH in acid soils.
- Increase phosphorus availability
- Provide an excellent source of calcium, iron, magnesium and potassium, plus trace and micronutrients.
- Increase moisture holding properties in the soil.
- Improve the cation exchange capacity.
- Improve soil structure and drainage.

TARGET Glacial Dust helps restore the correct mineral balance in the soil. When the correct balance is achieved, organic matter is turned into humus and the soil becomes a favorable environment for a host of beneficial molds, fungi, bacteria and earthworms. When this happens, the living soil becomes our partner again in the farming process; a buffer to the many variables farmers must contend with whatever the system of farming used.

APPLICATION

CONTAINER NURSERIES

Add 10 to 15 ml (1 to 3 Tbsp.) TARGET Glacial Dust per cell to your soil mix. When watering, add 10 to 15 ml to 1.1 L (1 to 3 Tbsp. to 1 quart) of water every 2 or 3 weeks if possible.

FORESTS

1 to 4 tons per acre.

1 to 3.6 tonnes per acre.

BAREROOT NURSERIES

Add 1 kg per m² (1 lb per 5 sq. ft.) by mixing into 5 - 10 cm (2" - 4") of soil.

FIELD CROPS

1 to 4 tons per acre.

1 to 3.6 tonnes per acre.

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.targetproducts.com/product-warranty
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MINERAL ANALYSIS

The following is a typical analysis, individual results may vary.

TARGET glacial dust 10 July 2002

| | | | |
|------------|-------|--------------|-------|
| Lithium | 14.0 | Tin | 1.29 |
| Beryllium | 1.29 | Antimony | 1.04 |
| Boron | 15 | Tellurium | <0.1 |
| Sodium | 17400 | Caesium | 0.96 |
| Magnesium | 11700 | Barium | 431 |
| Aluminum | 47100 | Lanthanum | 7.63 |
| Silicon | 980 | Cerium | 19.1 |
| Phosphorus | 970 | Praseodymium | 2.40 |
| Potassium | 7550 | Neodymium | 10.3 |
| Calcium | 14000 | Samarium | 2.34 |
| Scandium | 9.7 | Europium | 0.79 |
| Titanium | 4720 | Gadolinium | 2.73 |
| Vanadium | 151 | Terbium | 0.38 |
| Chromium | 105 | Dysprosium | 2.50 |
| Manganese | 883 | Holmium | 0.46 |
| Iron | 33830 | Erbium | 1.33 |
| Cobalt | 20.9 | Thulium | 0.19 |
| Nickel | 64.0 | Ytterbium | 1.25 |
| Copper | 52.5 | Lutetium | 0.18 |
| Zinc | 120 | Hafnium | 1.30 |
| Gallium | 15.6 | Tantalum | 0.52 |
| Germanium | 0.4 | Tungsten | 0.80 |
| Arsenic | 20 | Rhenium | <0.05 |
| Selenium | <1 | Iridium | <0.05 |
| Rubidium | 16.4 | Platinum | <0.05 |
| Strontium | 255 | Gold | 0.05 |
| Yttrium | 8.63 | Mercury | <0.05 |
| Zirconium | 20.4 | Thallium | 0.34 |
| Niobium | 5.73 | Lead | 9.75 |
| Molybdenum | 1.13 | Bismuth | 0.10 |
| Ruthenium | <0.01 | Thorium | 1.48 |
| Rhodium | 0.01 | Uranium | 1.51 |
| Palladium | 0.28 | | |
| Silver | 0.32 | | |
| Cadmium | 0.38 | | |

Results are in micrograms per gram (ppm)

MAJ.CMP = major component NOT.DET = not determined MOL.INT = molecular interference

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Standard Soil Test Results

| Ph | CEC (Cation Exchange Capacity) | EC (Electrical Conductivity) |
|-----|--------------------------------|------------------------------|
| 7.6 | 10.4 meq/100g | 460 micromhos/cm |

MINERAL ANALYSIS

The following results are from a **CANTEST** study performed Sep. 11, 1997.

Acid Digestion in Soil

| CLIENT SAMPLE IDENTIFICATION: | | TARGET GLACIAL DUST | | |
|-------------------------------|--------------------------------|---------------------|-----------------|-------|
| DATE SAMPLED: | | Aug 21/97 | DETECTION LIMIT | UNITS |
| CAN TEST ID: | | 708260103 | | |
| Alumina | Al ₂ O ₃ | 15.7 | 0.01 | % |
| Iron | Fe ₂ O ₃ | 7.17 | 0.01 | % |
| Calcium | CaO | 4.29 | 0.01 | % |
| Magnesium | MgO | 3.35 | 0.01 | % |
| Sodium | Na ₂ O | 2.86 | 0.01 | % |
| Potassium | K ₂ O | 1.35 | 0.01 | % |
| Antimony | Sb | < | 15 | µg/g |
| Arsenic | As | < | 30 | µg/g |
| Barium | Ba | 713 | 0.1 | µg/g |
| Beryllium | Be | 1 | 0.3 | µg/g |
| Cadmium | Cd | < | 2 | µg/g |
| Chromium | Cr | 117 | 3 | µg/g |
| Cobalt | Co | 20 | 2 | µg/g |
| Copper | Cu | 58 | 2 | µg/g |
| Lead | Pb | < | 10 | µg/g |
| Manganese | Mn | 1200 | 0.3 | µg/g |
| Molybdenum | Mo | < | 4 | µg/g |
| Nickel | Ni | 72 | 2 | µg/g |
| Phosphorus | PO ₄ | 2830 | 40 | µg/g |
| Silver | Ag | < | 3 | µg/g |
| Strontium | Sr | 379 | 0.1 | µg/g |
| Tin | Sn | < | 3 | µg/g |
| Titanium | Ti | 5260 | 1 | µg/g |
| Vanadium | V | 131 | 1 | µg/g |
| Zinc | Zn | 81 | 2 | µg/g |

% = percent

µg/g = micrograms per gram, on a dry weight basis

< = Less than detection limit

Teflon Bomb Digestion in Soil

| CLIENT SAMPLE IDENTIFICATION: | SAMPLE DATE | CAN TEST ID | Silica SiO ₂ |
|-------------------------------|-------------|-------------|-------------------------|
| TARGET GLACIAL DUST | Aug 21/97 | 708260103 | 64.5 |
| DETECTION LIMIT | | | 0.5 |
| UNITS | | | % |

% = percent

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Conventional Parameters in Soil

| CLIENT SAMPLE IDENTIFICATION: | SAMPLE DATE | CAN TEST ID | pH |
|-------------------------------|-------------|-------------|----------|
| TARGET GLACIAL DUST | Aug 21/97 | 708260103 | 7.6 |
| DETECTION LIMIT | | | 0.1 |
| UNITS | | | pH units |

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