

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.

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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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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