

EcoSand Soil Amendment – Elemental Analysis Versus Greensand and Azomite



Element	EcoSand	Greensand	Azomite	Element	EcoSand	Greensand	Azomite
Aluminum	10.4%	6.9%	11.4%	Molybdenum	11	<1	13
Antimony	0.4	0.8	0.4	Neodymium	69	–	5.1
Arsenic	6	25	1.1	Nickel	6.4	17	2.6
Barium	0.1%	<0.1%	0.2%	Niobium	53	2	40
Beryllium	2.9	6	3.3	Nitrogen	2	–	<0.1
Bismuth	0.4	<0.5	3.5	Osmium	<0.1	–	–
Boron	3.8	530	29	Oxygen	7.1%	–	0.7%
Bromine	0.5	–	6.6	Palladium	<0.1	–	<0.1
Cadmium	0.3	1.2	6.6	Phosphorus	0.1%	0.9%	0.2%
Calcium	2.8%	2.7%	3.7%	Platinum	<0.1	–	–
Carbon	25	–	6,100	Potassium	4.2%	7.7%	5.3%
Cerium	162	1.6	230	Praseodymium	19	–	27
Cesium	4.8	–	22	Rhenium	<0.1	–	<0.1
Chlorine	27	50	2,200	Rhodium	<0.1	–	<0.1
Chromium	16	200	6.1	Rubidium	174	206	325
Cobalt	1.5	4	22	Ruthenium	<0.1	–	<0.1
Copper	0.25	<0.5	12	Samarium	12	–	6.2
Dysprosium	11	–	2.7	Scandium	<5	4	2.7
Erbium	6.7	–	1.7	Selenium	0.6	<1	0.7
Europium	1.5	–	3.7	Silicon	70.4%	47.3%	65.8%
Fluorine	404	–	900	Silver	<0.1	<0.1	<0.1
Gadolinium	12	–	3.7	Sodium	0.4%	0.2%	2.1%
Gallium	22	18	15	Strontium	137	85	380
Germanium	4.7	<10	6.1	Sulfur	16	1,950	240
Gold	<0.1	<2	<0.1	Tantalum	3.4	<0.5	2.7
Hafnium	11	<0.2	21	Tellurium	<0.1	–	<0.1
Holmium	2.4	–	0.6	Terbium	1.9	–	0.8
Hydrogen	0.9%	–	0.4%	Thallium	1.2	<0.1	0.5
Indium	<0.1	<0.5	<0.1	Thorium	33	1.6	180
Iodine	<5	–	2.2	Thulium	1.2	–	0.6
Iridium	<0.1	–	–	Tin	7.6	–	2.9
Iron	2.1%	23.3%	1.4%	Titanium	0.3%	0.1%	0.3%
Lanthanum	87	–	220	Tungsten	2.6	<1	26
Lead	2	<2	6.2	Uranium	7.3	3.5	4
Lithium	32	27	859	Vanadium	10	69	7.8
Lutetium	1	–	0.5	Ytterbium	6.5	–	1.4
Magnesium	0.7%	3.3%	0.8%	Yttrium	107	21	23
Manganese	465	>100	200	Zinc	55	70	64
Mercury	<0.05	0.01	0.01	Zirconium	461	10	63

Values are parts per million except as noted to be percent.

Greensand data from New Jersey Geological Survey 98-1. Azomite data from Azomite website.