

## DIATOMITE

**Description:** Diatomite is a porous, low-density, sedimentary rock formed by the accumulation and compaction of diatoms which may comprise 90% or more of the dry weight of the rock. It is a sediment formed by the accumulation of fossil marine algae called diatoms. The skeletons of these algae consist of microscopic shells made of materials containing opal or silica. Diatomite is typically a mineral found in fine, white, powder, or granular form.

1.	Chemical Name	Diatomite
2.	Chemical formula	02Si
3.	CAS No.	61790-53-2
5.	Form	Solid
6.	Odor	Odorless
7.	Density	0.47 g/cm <sup>3</sup> (0,4 - 0,6 g/cm3)
8.	Solubility	Insoluble in Water
	Molecular weight	60.0843
9.	Melting point	1400~1650 <b>°C</b>
10.	Color	white, gray, yellowish, or brown
	Hardness	5 - 6 on the Mohs scale



SPECIFICATION TABLE		ANALYSIS TABLE				
Parameters 11. Parametreler	Unit Birim	Specifications Spesifikasyonlar	Unit Birim	Analysis Results Analiz Sonuçları	<b>Method</b> Metod	
MgO	%	1 - 3	%	1,70		
SiO2	%	55 - 80	%	61,20		
CaO	%	2 - 7	%	4,50		
Fe2O3	%	1 - 4	%	2,85		
AI2O3	%	7 - 14	%	9,40		
Na2O	%	0,1 - 0,5	%	0,10		
К2О	%	0,2 - 1,5	%	0,90		
MnO	%	0	%	0		
P2O5	%	0	%	0		
TiO2	%	0 - 0,1	%	0,10		
A.Z. (LOI)	%	20 - 30	%	22,05		

<sup>12.</sup> Applications

The physical properties of diatomite have led to its use in many commercial applications, the most common being for the filtration of liquids or as a filler, for example, in paints. Other uses of diatomite include insulation (fire bricks), fine abrasion (in some toothpaste and polishes) and as a pesticide. Also used in water treatment plants, swimming pools. Used for soil improvement and can be added to animal feed to enhance digestion and bind toxins. is a natural material used in skincare products and mask formulations.

**13.** Packaging 25 Kg bags, big bags

**14.** Health & Safety Diatomite is generally considered a substance that does not harm human health. However, inhalation of the dust can cause lung irritation if inhaled.

- **16.** Geo.Location Eskisehir / Turkiye (Middle Anatolia)
- **17. Particle Size** 45 100 micron

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