

## CALCITE

**Description:** Calcite is a rock-forming mineral. It is extremely common and found throughout the world everywhere. Calcite is the principal constituent of limestone and marble. These rocks are extremely common and make up a significant portion of Earth's crust.

1. **Chemical Name** Calcite
2. **Chemical formula**  $\text{CaCO}_3$
3. **Molecular Weight** 100.01
4. **CAS No.** 1317-65-3
5. **Density** 2,71 - 2,94 gr/cm<sup>3</sup>
6. **General Category** Industrial chemical
7. **Solubility** Insoluble in water
8. **Appearance** When polished, it exhibits a shiny/glassy appearance, contributing to its use in decorative items. White appearance in powder form.
- 9.
10. **Color** Generally colorless, white, yellow, brown, gray, or green.
11. **Hardness** 3 on the Mohs hardness scale, meaning calcite is softer than most metals and minerals
- Structure** Under a microscope, calcite crystals typically have a hexagonal prismatic or layered structure.



### SPECIFICATION TABLE

Parameters Parametreler	Unit Birim	RESULTS
Na2O	mass %	0.1047
SiO2	mass %	0.2755
P2O5	mass %	0.0378
SO3	mass %	0.0229
CaO	mass %	55.8221
Fe2O3	mass %	0.14
A.Z.	mass %	43.5970

13. **Applications** The properties of calcite make it one of the most widely used minerals. It is used as a construction material, abrasive, agricultural soil treatment, construction aggregate, pigment, pharmaceutical and more. It has more uses than almost any other mineral. Ink production, as fillers in paper making, in the detergent industry, use in cosmetics. In micronized sizes, it is a filler used in many sectors such as paint, paper, plastic, etc.
14. **Packaging** Big bags
15. **Health & Safety** Generally harmless when in contact with skin, but can cause irritation on sensitive skin. Good ventilation should be provided and dust masks should be used to prevent the spread of calcite dust. Personal protective equipment (PPE) such as respiratory protectors, safety goggles, and gloves should be used.
16. **Geo.Location** Eskisehir / Türkiye ( Middle Anatolia)
17. **Size supplied:** 45 microns  
63 microns  
100 microns