

## SEPIOLITE (SP4)

**Description:** Sepiolite content ratio 25-45% .Sepiolite is a rich and a slightly porous mineral by it's nature. There are many micropores within the sepiolite which helps maintain the water and this characteristic differentiates sepiolite from other clays when thoroughly soaked, it can absorb water or other liquids of it's weight without its granules breaking down. **CAT LITTER;** Sepiolite is lightweight and convenient to be utilized as a low maintenance solution for most households.

1. **Chemical Name** SEPIOLITE
2. **Chemical formula**  $Mg_4Si_6O_{15}(OH)_2 \cdot 6H_2O$
3. **Molecular Weight** 552.93 g/mol
5. **CAS No.** 63800-37-3
6. **Appearance** from powder grades to granules
7. **Density** 0,65 - 0,70 gr/cm<sup>3</sup>
8. **Texture** Fibrous or Needle-like Crystal Structure , Porous Structure ,Soft and Chalky Appearance
9. **Odor** None
10. **Color** White to light gray
11. **Moisture** 10 - 20% (typical)

### SPECIFICATION TABLE

| Parameters                     | Unit  | Specifications   | Unit  | Analysis Results | Analiz | Method |
|--------------------------------|-------|------------------|-------|------------------|--------|--------|
| Parametreler                   | Birim | Spesifikasyonlar | Birim | Sonuçları        |        | Metod  |
| MgO                            | %     | 15-20            | %     |                  |        |        |
| SiO <sub>2</sub>               | %     | 25-40            | %     |                  |        |        |
| CaO                            | %     | 13-20            | %     |                  |        |        |
| Fe <sub>2</sub> O <sub>3</sub> | %     | 1-4              | %     |                  |        |        |
| Al <sub>2</sub> O <sub>3</sub> | %     | 1-4              | %     |                  |        |        |
| Na <sub>2</sub> O              | %     | 0,1-0,5          | %     |                  |        |        |
| K <sub>2</sub> O               | %     | 0,1-0,5          | %     |                  |        |        |
| MnO                            | %     | NA               | %     |                  |        |        |
| P <sub>2</sub> O <sub>5</sub>  | %     | NA               | %     |                  |        |        |
| TiO <sub>2</sub>               | %     | 0 - 0,1          | %     |                  |        |        |
| A.Z.                           | %     | 20-25            | %     |                  |        |        |

13. **Applications** Odor Absorbent, Agriculture,Wastewater Treatment, Oil Refining, Industry, Construction and Ceramic, Cat Litter, Feed Additive ...
14. **Packaging** Big bags, 25 Kg bags, 10 Kg bags or bulk
15. **Health & Safety** Sepiolite is generally considered safe. However, inhaling the dust over long periods can cause respiratory issues  
It is recommended to use appropriate protective equipment (masks, gloves) when working with sepiolite
16. **Geo.Location** Eskisehir / Türkiye ( Middle Anatolia)
17. **Chemical Composition** The main component of sepiolite is hydrated magnesium silicate,
18. **Particle Size** 1-4 mm  
1-7 mm