

Summary of examination results

Chemical composition

| Components | weight (%) |
|--------------------------------|-------------|
| Ignition loss | 15,69-18,52 |
| SiO ₂ | 64,75-68,13 |
| Al ₂ O ₃ | 1,27-1,59 |
| Fe ₂ O ₃ | 0,52 |
| TiO ₂ | 0,06 |
| CaO | 13,00-13.67 |
| MgO | 0,99-1,04 |
| K ₂ O | 0,16 |
| Na ₂ O | 0,11 |
| SO ₃ | - |

X-ray diffraction analysis

| Phase composition | |
|----------------------------|---------|
| Calcite | 15-17 % |
| Montmorillonite | 6-7 % |
| Amorphous SiO ₂ | 76-78 % |

Typical particle size

| Average size | |
|------------------|------------|
| D _{90%} | < 25,12 μm |
| D _{50%} | < 9,43 μm |
| D _{10%} | < 2,44 μm |

PH measurement: 6,23-6,26

(Before the PH measurement, a sample of 1g was stirred in 100 ml distilled water for 30 minutes by a magnetic stirrer then sedimented and filtered.)

Permeability: 4,18-5,51 Darcy

Density measurement: 2,32 g/cm

Specific surface : 11,9-12,7 m²g

The above data are typical of diatomite occurrence in Erdőbénye.

Based on the examination results of SZIKKTI Laboratory of Silicatechemistry and Material Science Ltd. (18.11.2009)

For further information, the specification, MSDS, TDS of the products, please contact us.