

A plastic clay firing to cream with high dry bending strength and a wide vitrification range. The refractory clay with low pit moisture is in particular suitable for refractories and structural ceramics.

CLAY GFR

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|--------------------------------------------------------------------|--------------------------------|----------|------|
| Chemical analysis calcined [%] | SiO ₂ | 65,5 | |
| | Al ₂ O ₃ | 29,2 | |
| | TiO ₂ | 1,78 | |
| | Fe ₂ O ₃ | 1,93 | |
| | CaO | 0,37 | |
| | MgO | 0,63 | |
| | K ₂ O | 0,42 | |
| | Na ₂ O | 0,10 | |
| Loss on ignition [%] | | 9,61 | |
| Mineralogical Composition [%] | Kaolinit | 54,2 | |
| | Illit | 13,2 | |
| | Quarz | 29,4 | |
| Particle size distribution [%] | > 63 µm | 3,1 | |
| | 20-63 µm | 5,9 | |
| | 6,3-20 µm | 13,9 | |
| | 2-6,3 µm | 18,8 | |
| | < 2 µm | 58,3 | |
| Dry bending strength [N/mm ²] | | 7,2 | |
| Drying shrinkage [%] | | 7,6 | |
| Firing shrinkage [%] | 1000°C | 2,1 | |
| | 1100°C | 5,1 | |
| | 1200°C | 5,5 | |
| Water absorption [%] | 1000°C | 10,7 | |
| | 1100°C | 6,9 | |
| | 1200°C | 2,8 | |
| Coefficient of expansion α [×10 ⁻⁶ K ⁻¹] | pre fired 1070°C | 20-500°C | 6,1 |
| | | 20-600°C | 7,3 |
| Coefficient of expansion α [×10 ⁻⁶ K ⁻¹] | pre fired 1230°C | 20-500°C | 10,5 |
| | | 20-600°C | 10,6 |
| Refractoriness | 1680°C | SK 30 | |
| Firing colour | | cream | |

Available: • raw lumpy • shredded • directly ground • dry ground up to < 63 µm

The quoted data are mean values. Sale is by sample and according to our terms of delivery.