GOTTFRIED

RAW MATERIALS
FOR YOUR CERAMICS

Technical data

CLAY GTR

A plastic red-firing clay with a high dry bending strength and a wide vitrification range. The clay has a stabilising impact e.g. on bodies for roofing tiles or clinker bricks. The ochre-brown coloured clay is best possible suitable for clay products.

CLAY GTR

Chemical analysis calcined [%]		SiO_2	65,1
		Al_2O_3	22,6
		TiO_2	1,19
		Fe_2O_3	6,45
		CaO	0,39
		MgO	1,37
		K_2O	2,61
		Na_2O	0,20
Loss on ignition [%]			7,42
Mineralogical Composition [%]		Kaolinit	17,8
		Illit	40,1
		Quarz	32,9
Particle size distribution [%]		> 63 µm	11,8
		20-63 µm	4,7
		6,3-20 µm	16,4
		2-6,3 µm	15,6
		< 2 µm	51,5
Dry bending strength [N/mm²]			9,1
Drying shrinkage [%]			6,2
Firing shrinkage [%]		1000°C	3,0
		1100°C	6,3
		1200°C	–
Water absorbtion [%]		1000°C	7,3
		1100°C	1,2
		1200°C	–
Coefficient of expansion α [x10⁻⁶K⁻¹]	pre fired 1070°C	20-500°C	6,1
		20-600°C	7,2
Firing colour			red

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

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