

A bright-firing binding clay with a high degree of refractoriness and an Al_2O_3 content of 38%. It is ideally suited for all refractories and many of our chamottes are based on this clay. The clay which has a high content of kaolinite is also used in technical ceramics and abrasives.

CLAY GWE 38

Chemical analysis calcined [%]	SiO_2	57,1	
	Al_2O_3	38,6	
	TiO_2	1,89	
	Fe_2O_3	1,02	
	CaO	0,10	
	MgO	0,54	
	K_2O	0,72	
	Na_2O	0,10	
Loss on ignition [%]		11,7	
Mineralogical Composition [%]	Kaolinit	78,4	
	Illit	–	
	Quarz	11,6	
Particle size distribution [%]	> 63 μm	10,5	
	20-63 μm	10,9	
	6,3-20 μm	27,4	
	2-6,3 μm	13,0	
	< 2 μm	38,2	
Dry bending strength [N/mm^2]		6,3	
Drying shrinkage [%]		3,2	
Firing shrinkage [%]	1000°C	4,0	
	1100°C	5,5	
	1200°C	7,1	
Water absorption [%]	1000°C	15,2	
	1100°C	11,6	
	1200°C	9,8	
Coefficient of expansion α [$\times 10^{-6}\text{K}^{-1}$]	pre fired 1070°C	20-500°C	3,9
		20-600°C	4,1
Coefficient of expansion α [$\times 10^{-6}\text{K}^{-1}$]	pre fired 1230°C	20-500°C	5,7
		20-600°C	6,3
Refractoriness	1730°C	SK 33	
Firing colour		creamwhite	

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.