

A bright-firing binding clay with a high degree of refractoriness and an Al_2O_3 content of 43%. 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 43

Chemical analysis calcined [%]	SiO_2	52,2	
	Al_2O_3	43,5	
	TiO_2	1,87	
	Fe_2O_3	1,11	
	CaO	0,12	
	MgO	0,19	
	K_2O	0,53	
	Na_2O	0,10	
Loss on ignition [%]		13,1	
Mineralogical Composition [%]	Kaolinit	87,5	
	Illit	–	
	Quarz	3,5	
Particle size distribution [%]	> 63 μm	0,4	
	20-63 μm	6,0	
	6,3-20 μm	9,3	
	2-6,3 μm	13,0	
	< 2 μm	50,0	
Dry bending strength [N/mm^2]		5,2	
Drying shrinkage [%]		3,4	
Firing shrinkage [%]	1000°C	5,0	
	1100°C	6,2	
	1200°C	7,9	
Water absorbtion [%]	1000°C	14,9	
	1100°C	11,3	
	1200°C	9,5	
Coefficient of expansion α [$\times 10^{-6}\text{K}^{-1}$]	pre fired 1070°C	20-500°C	3,9
		20-600°C	4,2
Coefficient of expansion α [$\times 10^{-6}\text{K}^{-1}$]	pre fired 1230°C	20-500°C	6,6
		20-600°C	6,5
Refractoriness	1780°C	SK 35	
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.