

A bright-firing binding clay with a high degree of refractoriness and an Al_2O_3 content of 40%. 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 40

Chemical analysis calcined [%]	SiO_2	54,9	
	Al_2O_3	40,9	
	TiO_2	1,88	
	Fe_2O_3	1,07	
	CaO	0,12	
	MgO	0,37	
	K_2O	0,63	
	Na_2O	0,10	
Loss on ignition [%]		12,4	
Mineralogical Composition [%]	Kaolinit	83,0	
	Illit	–	
	Quarz	7,6	
Particle size distribution [%]	> 63 μm	5,5	
	20-63 μm	8,5	
	6,3-20 μm	27,4	
	2-6,3 μm	14,6	
	< 2 μm	44,1	
Dry bending strength [N/mm^2]		5,8	
Drying shrinkage [%]		3,6	
Firing shrinkage [%]	1000°C	4,5	
	1100°C	5,9	
	1200°C	7,5	
Water absorption [%]	1000°C	15,1	
	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	6,1
		20-600°C	6,4
Refractoriness	1760°C	SK 34	
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.