




TECHNICAL DATE SHEET

KAOLIN CLAY

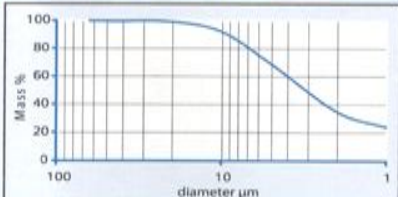
We, the Central Minerals & Transport Joint Stock Company, hereby confirm that all the given information bellows are in the analysis report:

Chemical analysis						
	SiO ₂	Mass %	52,0	P ₂ O ₅	Mass %	0,02
	Al ₂ O ₃		32,0	SO ₂		<0,01
	Fe ₂ O ₃		0,75			
	TiO ₂		1,0			
	CaO		0,10			
	MgO		0,35			
	K ₂ O		3,20			
	Na ₂ O		0,20			
LOI		10,4				

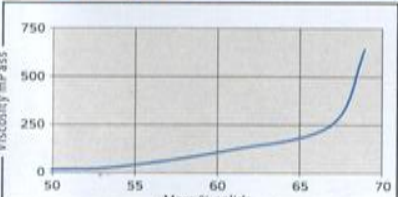
Testing method: X-ray fluorescence analysis

Minerological composition			
Kaolinite	Mass %	48	
Illite		31	
Quarz		17	
Feldspar		<2	
Other		2	

Testing method: X-ray difraction

Particle size distribution				
	residue on sieves	>63 μm	Mass %	0,01*
		>45 μm		0,02
	finer then	<20 μm		99,8**
		<10 μm		92
		< 5 μm		69
		< 2 μm		42
		< 1 μm		24
	d50		2,6	

Testing method: * wet on sieve, ** by Sedigraph

Casting data			
	Deflocculant		polyacrylat
	Deflocculant of demand	Mass %	0,05
	Viscosity / Solids	mPas / %	28 / 54
			118 / 61
			250 / 67
			640 / 69
	Casting concentration (500mPas)	Mass %	68
Casting rate	mm ² .min ⁻¹	1,52	

Testing method: rotation viscometer, bar formed by casting

Fired properties -1250 C °			
Fired shrinkage	%	12,5	
Water absorbtion	Mass %	9,0	
Fired color	L*	90,0	
	a*	0,08	
	b*	14,0	

Testing method: firing oxidation, bar formed by casting

Other properties			
Moisture contend	Mass %	<12	
Bulk density	kg / m ³	~900	
Modulus of rupture (casting)	MPa	0,70	
Dry shrinkage	%	2,8	

Applications: Used in the ceramic industry especially as part of the casting slip.
 Excellent for quick body formation and high casting concentration.

FOR CENTRAL MINERALS AND TRANSPORT JSC.