

TECHNICAL DATA SHEET

Item: **kaolin clay – KN83**

Chemicals		
SiO ₂	46,8	%
AL ₂ O ₃	37,5	%
Fe ₂ O ₃	0,25	%
TiO ₂	1,00	%
CaO	0,10	%
MgO	0,05	%
Na ₂ O	0,05	%
K ₂	0,60	%
L.O.I.	13,4	%
Fluorine	210	ppm
Mineralogical analysis		
Kaolinite	89	%
Montmorillonite	5	%
Feldspar, Mica	3	%
Quartz	3	%
Particulae size Distribution		
Wet screen residue >45µm	0,30	%
Particle size distribution <2µm	68	%
D50-value	68	µm
Viscosity Lehmann/Casting rate		
Slurry density	1600	g/l
Type of deflocculant	Sodium Silicate	
Optimized deflocculant addition	0,25	%
Run out time, volume 100ml	21	sec
Casting rate(30 min)	9,5	mm
Modulus of rupture		
	0,5	N/mm ²
Firing temperature		
	1250	C
Contraction		
Drying contraction	0,5	%
Firing contraction	9,0	%
Total contraction	9,5	%
Sagging		
	11	mm
Production plant locations		
Country	Ukraine	

