

Supplementary Material

MINERALOGY, CHEMISTRY, THERMAL AND SURFACE PROPERTIES OF VARIOUS TECHNOLOGICAL TYPES OF K-BENTONITE FROM THE DOLNÁ VES DEPOSIT (KREMNICKE VRCHY MTS., WESTERN CARPATHIANS, SLOVAKIA)

M. OSACKÝ^{1,*}, Y. BAI¹, P. UHLÍK¹, H. PÁLKOVÁ², M. ČAPLOVIČOVÁ³

¹Comenius University in Bratislava, Department of Mineralogy, Petrology and Economic Geology, Mlynska dolina, Ilkovicova 6, Bratislava 84215, Slovakia

²Institute of Inorganic Chemistry, Slovak Academy of Sciences, Dúbravská cesta 9, Bratislava 84536, Slovakia

³Centre for Nanodiagnostics of Materials, Faculty of Materials Science and Technology, Slovak University of Technology, Vazovova 5, Bratislava 81243, Slovakia

*Corresponding author: Tel: +421 260 296 274, Fax: +421 260 296 282.

E-mail address: mosacky@hotmail.com

Table S1: The global positioning system (GPS) coordinates for sampling sites.

Sample	GPS position	
	Latitude	Longitude
DV19/1	48°39'29.00"N	18°53'21.50"E
DV19/2	48°39'27.70"N	18°53'21.70"E
DV19/3	48°39'27.90"N	18°53'24.70"E
DV19/4	48°39'29.50"N	18°53'24.20"E
DV19/5	48°39'27.30"N	18°53'24.50"E

Table S2: Some minor elements contents (in ppm) for the studied K-bentonite samples.

Sample	Cu	Pb	Zn	Ni	As	Hg
Bulk						
DV19/1	0.8	10.7	5	0.9	8.4	0.07
DV19/2	1.2	7.2	12	1.7	7.3	0.06
DV19/3	1.8	1.2	5	2.1	20.9	0.03
DV19/4	2.3	52.3	3	1.6	106.7	0.35
DV19/5	1	2.6	9	1.9	9.6	0.15
Clay fraction (< 2 µm)						
DV19/1	1.3	10.3	14	3.3	5.4	0.09
DV19/2	2.5	2.4	29	2.6	8.8	0.07
DV19/3	2.3	0.9	7	1.9	29.3	0.03
DV19/4	4.2	56.6	12	4.1	105.5	0.86
DV19/5	1.9	4.6	22	3.2	19.6	0.3