

Annex A. X-ray photoelectron spectroscopy survey data of the Transcarpathian zeolite and lightweight expanded clay aggregate carriers

Table A.1. XPS survey data of the lightweight expanded clay aggregate (LECA) carrier

Chemical element	Peak, BE	FWHM, eV	Area (P) CPS, eV	Area (N)	Atomic %
Al2p	74.60	2.26	2723.24	2591.95	5.64
Si2p	102.87	2.22	10926.80	6946.20	15.11
C1s	284.91	2.03	28052.90	16136.00	35.10
Ka2p	294.14	1.69	2386.42	1376.03	2.99
Ca2p	348.14	1.75	3668.12	418.38	0.91
O1s	532.21	2.64	80888.28	17549.25	38.18
Fe2p3	710.96	4.33	7478.00	467.29	1.02
Na1s	1072.54	1.90	5074.79	485.06	1.06

Table A.2. XPS survey data of the Transcarpathian zeolite carrier

Chemical element	Peak, BE	FWHM, eV	Area (P) CPS, eV	Area (N)	Atomic %
Al2p	74.72	1.83	3038.26	2891.84	4.69
Si2p	103.03	2.02	16668.94	10596.89	17.20
C1s	284.89	2.11	32772.24	18850.42	30.59
K2p	294.02	1.74	2829.48	403.82	0.66
Ca2p	348.97	1.76	3372.10	384.71	0.62
Ti2p3	457.81	0.15	629.18	72.81	0.12
O1s	532.39	2.39	124766.85	27070.58	43.93
Fe2p3	711.82	4.78	8183.33	511.54	0.83
Na1s	1072.62	2.19	8747.64	836.13	1.36