

Product: Zeolite
Sample description: 2 kg
Packaging: plastic
State of packaging: intact
Sample temperature: -

Order: VAL15-1001589
Test requested by: S&B INDUSTRIAL MINERALS Ltd.
Kurdjali, 97 Belomorski Blvd.
Date of reception of the sample: 23.02.2015
Customer's designation of the sample: -
Seal: -
Quantity of which the sample is representative" –
The sample is shaped by the customer.
The sample is destroyed during the analysis.

Indicator	Unit	Test results (Value, uncertainty)	Test method	Test conditions, test apparatus
1. Content of metals and non-metals				
Arsenic	mg/kg	<0.05*	BJM 39:2009	Humidity 12%, ICP-OES
Mercury	mg/kg	<0.05*		
Cadmium	mg/kg	<0.05*		
Lead	mg/kg	27.1 ± 1.9		
2. Polychlorinated dibenzodioxins and dibenzofurans				
PCDDs, PCDFs	ng/kg	According to Annex Dioxins and dioxin-like compounds	EPA 1613:1994	

Comments on the result based on WHO 2005 TEFs:

ng WHO-PCDD/PCDF-TEQ/kg = 0.198

* quantification limit of the method
** detection limit

NOTES:

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Testing conducted by:
(I. Gospodinova, P. Doicheva)

Head of Laboratory:
(V. Pashova)

Date of testing: 04.03.2015

DIOXINS AND DIOXIN-LIKE COMPOUNDS

To Test Report No. 2287NA

Date: 4/3/2015

Analysis conducted by:

Head of laboratory:

Results		Comments on the results based on 2005 WHO TEFs				
Compound	Concentration (ng/kg)	WHO-TEF	WHO-TEQ (ng/kg) Lower bound	WHO-TEQ (ng/kg) Middle bound	WHO-TEQ (ng/kg) Upper bound	WHO-TEQ (ng/kg) Reporting limit
2378-TCDF	<0.0176*	0.1	0.0000	0.0009	0.0018	0.0018
2378-TCDD	<0.0156*	1	0.0000	0.0078	0.0156	0.0156
12378-PeCDF	<0.0514*	0.03	0.0000	0.0008	0.0015	0.0015
23478-PeCDF	<0.0395*	0.3	0.0000	0.0059	0.0119	0.0119
12378-PeCDD	<0.0372*	1	0.0000	0.0186	0.0372	0.0372
123478-HxCDF	<0.3005*	0.1	0.0000	0.0150	0.0301	0.0301
123678-HxCDF	<0.1985*	0.1	0.0000	0.0099	0.0198	0.0198
234678-HxCDF	<0.0789*	0.1	0.0000	0.0039	0.0079	0.0079
123789-HxCDF	<0.0854*	0.1	0.0000	0.0043	0.0085	0.0085
123478-HxCDD	<0.1711*	0.1	0.0000	0.0086	0.0171	0.0171
123678-HxCDD	<0.1091*	0.1	0.0000	0.0055	0.0109	0.0109
123789-HxCDD	<0.0889*	0.1	0.0000	0.0044	0.0089	0.0089
1234678-HpCDF	<0.482*	0.01	0.0000	0.0024	0.0048	0.0048
1234789-HpCDF	<1.144*	0.01	0.0000	0.0057	0.0114	0.0114
1234678-HpCDD	<0.97*	0.01	0.0000	0.0049	0.0097	0.0097
OCDF	<1.881*	0.0003	0.0000	0.0003	0.0006	0.00056
OCDD	<1.902*	0.0003	0.0000	0.0003	0.0006	0.00057
ng WHO-PCDD/F – TEQ/kg (as a basis)			0.000	0.099	0.198	0.198
ng WHO-PCDD/F – TEQ/kg (88% d.w.)			0.000	0.096	0.193	
Measurement uncertainty (88% d.w.)					0.048	

* quantification limit