



QINGDAO EASTCHEM INC

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CERTIFICATE OF ANALYSIS

TO: FEZUTA ENERGY & RESOURCE, KISANGANI, DRC, AFRICA	INVOICE NO.: 0624ABEMO-1 DATE: 2013.06.24
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Commodity Name: Activated Clay

1. Physical/chemical characteristics (typical product data)

TEST ITEM	UNIT	STANDARD	INDEX
Color	-	White or gray or light pink	gray
Appearance	-	powder	power
Decoloring rate	%	>98	99.6
Activity Degree	m.mol/kg	>210	220
Decoloring capacity	-	>180	182.8
Specific surface area	m ² /g	>130	185.0
Free acid (as H ₂ SO ₄)	%	<0.30	0.15
Moisture	%	<10	9.6
Particle size (200 mesh)	%	>95	96
Filtering rate	ml/min	4	6
Bulk density	g/ml	0.5±0.10	0.54
PH value	(50g/L suspension)	2.2-4.8	3.09

2. Heavy Metal Component (typical product data)

According to the standard method of "Determination of arsenic in food additives" issued by Standardization Administration of China and ICP Method

TEST ITEM	UNIT	STANDARD	INDEX
As	mg/kg	≤3	2
Pb	mg/kg	≤25	20
Cu	mg/kg	≤5	5
Hg	mg/kg	≤0.5	<0.5

3. Chemical Component: (typical product data)

According to the standard method of "Chemical Analysis of refractory products by XRF" issued by Standardization Administration of China.

TEST ITEM	UNIT	INDEX
SiO ₂ :	%	77.39
Al ₂ O ₃ :	%	9.30
Fe ₂ O ₃ :	%	1.14
CaO:	%	0.19
MgO:	%	2.04
K ₂ O:	%	1.15
Na ₂ O:	%	0.14
MnO:	%	0.023

4. Particle Size: (typical product data)

The particle size is characterized by a sieve analysis of the dry powder, the following average values have been determined for the various sieve fractions:

>180um	%	0
>150um	%	1
>105um	%	5
>75um	%	10
>45um	%	35
>4um	%	75

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