



Report of research no 338/2012

Order from:	Sopol Solewodziński Sp. J. 43-190 Mikołów ul. Katowicka 87		
Analysis no.:	830	Number of samples:	1
Letter:	-	Order no.:	800.1.12.2104.8098.4
Substance tested:	talk mineral		
Date of sampling:	-	Page:	1
		Number of p	2

The Laboratory made fuel analysis according to methods listed below:

Parameter determined			No of document/norm	Status*	Uncertainty ± %**
Silica	as	SiO ₂		☒ B	
Iron	as	Fe ₂ O ₃		☒ B	
Aluminium	as	Al ₂ O ₃		☒ B	
Manganese	as	Mn ₃ O ₄		☒ B	
Titanium	as	TiO ₂		☒ B	
Calcium	as	CaO		☒ B	
Magnesium	as	MgO		☒ B	
Sulfur	as	SO ₃		☒ B	
Phosphorus	as	P ₂ O ₅		☒ B	
Sodium	as	Na ₂ O		☒ B	
Potassium	as	K ₂ O		☒ B	
Barium	as	BaO		☒ B	
Strontium	as	SrO		☒ B	
Loss on ignition			PN-G-04528-02:1977	☒ B	
			PN-EN 196-2:2006	☐	
Moisture			PN-G-04560:1998 termogravimetric method	☐	
Total organic carbon	as	C***	IB_TL_08_06:2010 z dnia 20.09.2010	☐	
Carbonate	as	CO ₂	analizator TOC Shimadzu z SSM	☐	
Chlorides	as	Cl	PN-EN 196-2:2006 met. miareczkowa	☐	
Free CaO			PN-EN 451-1:2004	☐	
Sulfates	as	SO ₄	IB_EP_03_01:2005 z dnia 30.03.2005	☐	
Sulphites	as	SO ₂	IB_EP_03_01:2005 z dnia 30.03.2005	☐	
Sulphides	as	S ²⁻	IB_TL_11_02:2011 z dnia 5.01.2011	☐	

* A - determination accredited

B - determination no accredited

** Uncertainty of determination is given on request of Customer as an expanded uncertainty for an expansion factor k=2 and a confident level 95 %

*** Flammable parts determinet as TOC.

Certificate and current range accreditation you can find at

http://www.energopomiar.com.pl/akredytacje/energopomiar_certyfikat_AB-550.pdf

Gliwice, 13.02.2012



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No of sample:	Date of sampling:	Sample description			
830	-	talk mineral			

Substance determined				Sample no.:					
				830					
Silica	as	SiO ₂	%	62,3	-	-	-	-	-
Iron	as	Fe ₂ O ₃	%	0,22	-	-	-	-	-
Aluminium	as	Al ₂ O ₃	%	0,12	-	-	-	-	-
Manganese	as	Mn ₃ O ₄	%	<0,01	-	-	-	-	-
Tytanium	as	TiO ₂	%	<0,01	-	-	-	-	-
Calcium	as	CaO	%	0,25	-	-	-	-	-
Magnesium	as	MgO	%	31,5	-	-	-	-	-
Sulfur	as	SO ₃	%	<0,01	-	-	-	-	-
Phosphorus	as	P ₂ O ₅	%	<0,01	-	-	-	-	-
Sodium	as	Na ₂ O	%	0,03	-	-	-	-	-
Potassium	as	K ₂ O	%	0,01	-	-	-	-	-
Barium	as	BaO	%	<0,01	-	-	-	-	-
Strontium	as	SrO	%	<0,01	-	-	-	-	-
Loss on ignition			%	4,83	-	-	-	-	-
SUM				99,26					
Moisture			%		-	-	-	-	-
Total organic carbon	as	C***	%		-	-	-	-	-
Carbonate	as	CO ₂	%		-	-	-	-	-
Chlorides	as	Cl	%		-	-	-	-	-
Free CaO			%		-	-	-	-	-
Sulfates	as	SO ₄	%		-	-	-	-	-
Sulphites	as	SO ₂	%		-	-	-	-	-
Sulphides	as	S ²⁻	%		-	-	-	-	-

The analysis results refer exclusively to analysed sample

Without the Laboratory's written consent the protocol cannot be duplicated in any other way but entirely

ZASTĘPCA KIEROWNIKA
CENTRALNEGO LABORATORIUM

KWojnar
mgr Katarzyna Wojnar