

TECHNICAL ANALYSIS



SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	MnO	CaO	Li ₂ O	Na ₂ O	K ₂ O	P ₂ O ₅	Z ann.	H ₂ O	TOTAL
99.42	0,08	0.84	0.04	< 0.01	0.003	0.10	0.002	< 0.01	0.01	0.010	0.05	0.10	100.66
98.50	0.08	19360	0.07	0,01	0.005	0.08	0,003	< 0.01	0.12	0.010	0.07		

Value on WET %

SYLICATE ANALYSIS

Component	The result is in range	The uncertainty of the result " is ±	Identification of test procedure	Determination Limit
SiO ₂	0.1-0.49	0,30*result	A1; (Method resort ¹) - Chapt. 1.1.2 a 1.1.3)	0,1
	0.50-95.00	0,0158* result	A24; (Method resort ¹) - Chapt.. 1.1.3.1, ČSN 72 0105:2009)	0,1
TiO ₂	0.01-0.049	0,40*result	A11; (Method resort ¹) - Chapt.. 1.1.5.1)	0,01
	0.05-3.00	0,1172*result		
Al ₂ O ₃	0.01-0.099	0,40*result	A10(to 3%);(Method resort ¹) - Chapt. 1.1.4.2)	0,01
	0.10-3.00	0,1718*result		
Fe ₂ O ₃	3.00-35.00	$2*[(0,0724^2+(0,0106*result)^2)]^{0,5}$	A3;(to 3%);(Method resort ¹) - Chapt. 1.1.4.1, ČSN 72 0109:2009)	0,1
	0.01-10.00	$2*[(0,0750^2+(0,0156*result)^2)]^{0,5}$	A7(to 10%);(Method resort ¹) - Chapt. 1.1.7.5)	0,01
MgO	4.00-16.00	0,054*result	A6;(up 4%);(Method resort ¹) - odd. 1.1.7.3, ČSN 72 0110:2009)	0,05
	0.01-0.49	0,15*result	A8(to 5%);(Method resort ¹) - Chapt. 1.1.9.1)	0,01
MnO	0.50-5.00	$2*[(0,0045^2+(0,0228*result)^2)]^{0,5}$		
	5.00-40.00	$2*[(0,184^2+(0,027*result)^2)]^{0,5}$	A5;(to 5%); (Method resort ¹) - Chapt. 1.1.9.1, ČSN 72 0114:2009)	0,1
CaO	0.001-0,049	0,40*result	A7;(Method resort ¹) - Chapt. 1.1.8.1)	0,001
	0.05-1.00	$2*[(0,0042^2+ 0.0309*result)^2]^{0,5}$		
Li ₂ O	0.01-0.099	0,40*result	A8;(Method resort ¹) - v 1.1.2 a 1.1.3)	0,01
	0.10-5.00	0,13*result		
Na ₂ O	5.00-55.0	$2*[(0,136^2+(0,027*result)^2)]^{0,5}$	A4; (up 5%); (Method resort ¹) - Chapt. 1.1.9.2, ČSN 72 0113:2009)	0,1
	0.001-0.049	0,2000*result	A1; (Method resort ¹) - Chapt.1.1.13.1)	0,001
K ₂ O	0.050-1000	0,1180*result		
	0.01-0.49	0,20*result	A1; (Method resort ¹) - Chapt. 1.1.12.1)	0,01
P ₂ O ₅	0.50-10.00	$2*[(0,0524^2+(0,0333*result)^2)]^{0,5}$		
	0.01-0.49	0,20*result	A1; (Method resort ¹) - Chapt. 1.1.12.1)	0,01
H ₂ O	0.50-10.00	$2*[(0,0619^2+(0,0226*result)^2)]^{0,5}$		
	0.005-0.05	0,352*result	A13; (Method resort ¹) - Chapt. 1.1.36.2, ČSN 72 0116:2009)	0,005
Loss on ignition	0.05-1,50	0,181*result		
	0.05-0.19	0,06%	A20; (Method resort ¹) - Chapt. 1.1.1.1, ČSN 72 0102:2009)	0,05
Loss on ignition	0.20-0.99	$2*[(0,0627^2+(0,0077*result)^2)]^{0,5}$		
	1.00-2.50	$2*[(0,0627^2+(0,0077*result)^2)]^{0,5}$		
Loss on ignition	clay samples			
	3.00-11.00	1,20%		
Loss on ignition	0.05-3.99	0,35*result	A22; (Method resort ¹) - Chapt. 1.1.1.3, ČSN 72 0103:2009)	0,05
	4.00-45.00	0,45 %, ±1.20% hygrosco. sample	A21; (Method resort ¹) - Chapt.. 1.1.1.3)	

RADIOACTIVITY

0,1 μSv (mikrosievert)

TYPE OF DELIVERY

grounded

PACKAGING

big bag

APPLICATIONS

Synthetic quartz, semiconductor silicon, silicon alloys, photovoltaics, glass industry, filler medium, abrasives.

Attested by:



CZECH
GEOLOGICAL
SURVEY



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