

**NATIONAL ACCREDITATION SYSTEM
FEDERAL ACCREDITATION SERVICE
(ROSSACCREDITATION)**

TESTING LABORATORY
LLC Specialised testing centre Mountain Mining "Geo"
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Certificate of accreditation № ROSS RU 0001 21ST24 of 09.09.2013,
Valid until 09.09.2018

Customer: Loza LLC

ROCK TEST RESULT
"Annovsky" deposit of marbled limestone
Katav-Ivasnovsky district of Chelyabinsk region

Indicators of physical and Mechanical properties of useful rock masses	unit	value fluctuation		field average	GOST requirements 9479-2011 TC 5714-002-78821620-13
		from	to		
1	2	3	4	5	6
Average density	g/sq cm	2,67	2,71	2,69	at least 2,60
Water absorption	%	0,14	0,35	0,23	no more 0,75
True density	g/cu cm	2,7	2,75	2,72	No
Porosity	%	1,09	1,84	1,25	No
Compressive strength limit In dry condition	MPa	83,06	119,2	105,34	at least 50,0
Compressive strength in a water-saturated state	MPa	66,70	100,8	86,83	No
Compressive strength limit after frost resistance test	MPa	60,86	93,78	80,20	No
Reduction in compressive strength of rock during water saturation	%	16,03	20,49	17,76	no more 30%
Reduction strength after frost resistance tests	%	6,96	8,76	7,75	no more 20
Abrasion on a circle LCA-3	g/sq cm	0,71	0,92	0,79	no more 2,0
impact resistance on a copra CY	cm	30	30	30	at least 20
Acid resistance	%	0,70	0,90	0,79	no more 1%
Frost resistance	brand	F-200	F-200	F-200	at least F-15

26.03.2015

Director

LLC Test Centr mining "Geo"

L. G. Arovina