

Appendix to Test report No. 5

Frost-resistance of broken stone mixed with fraction of 5-20 mm

Product name: broken stone mixed with fraction of 5-20 mm, code of the Russian Classification of Production (RCP) 571110, code of Foreign Economic Activity Commodity Nomenclature (FEACN) 2517 10 000 0

Supplier: Kalinichenko Individual Entrepreneur

Date of registration: 27.06.2013

Information about test unit: broken stone mixed with fraction of 5-20 mm (basalt). Kirovsky deposit of structural stone, Kirovsky settlement of the Primorsky region, mass of 140 kgs.

Registration number of collected material: No. 3586

Test method: GOST 8269 0-97 “Mauntainous rock road-metal and gravel, industrial waste products for construction works”

Date of testing: 27.06 – 05.08.2013

Accelerated frost resistance test of broken stone mixed with fraction of 5-20 mm

Fraction, mm	No. of sample	Mass of sample before testing, g	Mass of sample after 3 cycles, g	Mass loss after 3 cycles		Mass of samples after 5 cycles, g	Mass loss after 5 cycles		Mass of samples after 10 cycles, g	Mass loss after 10 cycles		Mass of samples after 15 cycles, g	Mass loss after 15 cycles	
				g	%		g	%		g	%		g	%
5-10	1	1000	994.09	5.91	0.59	988.57	11.43	1.14	984.91	15.09	1.51	981.71	18.29	1.83
	2	1000	993.27	6.73	0.67	987.87	12.13	1.21	984.40	15.60	1.60	981.35	18.65	1.87
	Measurement average				0.63			1.18			1.56			1.85
10-20	1	1500	1490.86	9.14	0.61	1481.07	18.93	1.26	1477.49	22.51	1.50	1473.91	26.09	1.74
	2	1500	1491.27	8.73	0.58	1479.89	20.11	1.34	1477.94	22.06	1.47	1483.27	26.73	1.78
	Measurement average				0.60			1.30			1.49			1.76
Measurement average: -mass loss after testing					0.60			1.28			1.50			1.77
Requirements of GOST 8267-93 - Mark of frost resistance - mass loss after testing, no than %					F15 10			F25 10			F100 5			F300 2

Decision: on the basis of testing results and requirements of GOST 8267-93 “Mauntainous rock road-metal and gravel, industrial waste products for construction works” the broken stone mixed with a fraction of 5-20 mm belongs to mark F300 by frost-resistance.

Head of Constructional materials testing center

Professor

/Signature/

N.I. Yarmolinskaya

Seal: Ministry of Education and Science of the Russian Federation

State Budgetary Educational Institution of Higher Vocational Education

“Pacific Ocean State University”