

### Test report No. 5

#### 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

#### 1. Qualitative indicators of broken stone mixed with fraction of 5-20 mm characteristics

Name of indicator	Mea. unit	Testing result	Requirements of GOST 8267-93
1. Packed density	Kg/m <sup>3</sup>	1603	No regulations
2. True density	g/cm <sup>3</sup>	2.94	No regulations
3. Clay particles and dust content	%	0.02	No more than 1
4. Clay globs content	%	0	No more than 0,25
5. Plate-like (flake) and needle shaped grains content	%	1.97	1 group Up to 10 inclusive
6. Soft rock grains content	%	0	No more than 5
7. Breakability mark -mass lost during testing in water-saturated form	%	1400 2.76	1400 Up to 9 inclusive
8. Full remains on control sieves D 0.5(d+D) D 1.25D	%	99.78 55.55 0.14 0	90-100 30-80 Up to 10 Up to 0.5
9. Scuff-resistance mark	%	И1 6.56	И1 Up to 25 incl.
10. Frost-resistance mark: saturate in sodium sulphate solution – drying: -number of cycles -mass lost during testing	%	F300  15 1.77	F300  15 No more than 2

## 2. Grading of broken stone mixed with fraction of 5-20 mm characteristics

Name of remains	Size of sieve mesh, mm						
	25	20	12.5	10	5.0	2.5	
Partial remains, %	0	0.14	55.41	29.42	14.81	0.08	0.14
Full remains, %	0	0.14	55.55	84.97	99.78	99.86	100

**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 group one by the form of grains, belongs to mark 1400 by crushability, belongs to mark И1 by scuff-resistance, belongs to mark F300 by frost-resistance.

Report applies only to the sample subjected to the test

Head of Constructional materials testing center

Professor

/Signature/

N.I. Yarmolinskaya

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State Budgetary Educational Institution of Higher Vocational Education  
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