

Test report No. 2

Broken stone mixed with fraction of 20-70 mm

Product name: broken stone mixed with fraction of 20-70 mm, code of the Russian Classification of Production (RCP) 57 1110, code of Foreign Economic Activity Commodity Nomenclature (FEACN) 2517 10 000 0

Supplier: Kalinichenko Individual Entrepreneur

Date of registration: 22.05.2013

Information about test unit: broken stone mixed with fraction of 20-70 mm (basalt). Kirovsky deposit of structural stone, Kirovsky settlement of the Primorsky region, mass of 160 kgs.

Registration number of collected material: No. 3512

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

Date of testing: 22.05 – 05.07.2013

1. Qualitative indicators of broken stone mixed with fraction of 20-70 mm characteristics

| Name of indicator | Mea. unit | Testing result | Requirements of GOST 8267-93 |
|--|-------------------|--------------------------|--|
| 1. Packed density | kg/m ³ | 1576 | No regulations |
| 2. True density | g/cm ³ | 2.94 | No regulations |
| 3. Clay particles and dust content | % | 0.08 | No more than 1 |
| 4. Clay globs content | % | 0 | No more than 0.25 |
| 5. Plate-like (flake) and needle shaped grains content | % | 1.59 | 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 3.66 | 1400 Up to 9 inclusive |
| 8. Full remains on control sieves D 0.5(d+D) D 1.25D | % | 99.85 33.60 0 0 | 90-100 30-80 Up to 10 Up to 0.5 |
| 9. Scuff-resistance mark | % | И1 7.90 | И1 Up to 25 incl. |
| 10. Frost-resistance mark: saturate in sodium sulphate solution – drying: -number of cycles -mass lost during testing | % | F300 15 1.68 | F300 15 No more than 2 |

2. Grading of broken stone mixed with fraction of 20-70 mm characteristics

| <i>Name of remains</i> | <i>Size of sieve mesh, mm</i> | | | |
|---------------------------|-------------------------------|--------------|--------------|----------------|
| | <i>70</i> | <i>40</i> | <i>20</i> | <i>< 20</i> |
| <i>Partial remains, %</i> | <i>0</i> | <i>33.60</i> | <i>66.25</i> | <i>0.15</i> |
| <i>Full remains, %</i> | <i>0</i> | <i>33.60</i> | <i>99.85</i> | <i>100</i> |

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 20-70 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

Seal: Ministry of Education and Science of the Russian Federation

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