

## Report No. 0584/5e/20

dated 12.02.2021/Lo/gie

**Client:** DC Eikefet Aggregates AS  
Eikemovegen 3  
N-5994 Vikanes

**Order:** **Quality monitoring of aggregates for EN 13450**  
“Aggregates for railway ballast”

**Production plant:** DC Eikefet Aggregates AS, 5994 Vikanes, Norway

**Origin:** Eikefet, Norway

**Material:** Gneiss

**Grading:** Railway ballast 31,5/50 mm - approx. 150 kg

**Sampling:** by client

**Sampling point:** Stockpile

**Sample receipt:** 24.11.2020

**Requirements:** EN 13450:2002/AC:2004

This report includes 4 pages.

## 1. Laboratory tests

### 1.1 Resistance to fragmentation

#### 1.1.1 Los-Angeles-coefficient

Test method: EN 1097-2:2020 and EN 13450:2002/AC:2004, annex C

LA-Coefficient [%]:	15
Category:	LA <sub>RB</sub> 16

#### 1.1.2 Resistance to impact

Test method: EN 1097-2:2020 and EN 13450:2002/AC:2004, annex D

Values SZ <sub>RB</sub> [%]:	17,1 - 17,2 - 18,5
Mean value SZ <sub>RB</sub> [%]:	18
Category:	SZ <sub>RB</sub> 18

### 1.2 Resistance to wear (micro-Deval)

Test method: EN 1097-1:2011 and EN 13450:2002/AC:2004, annex E

Values M <sub>DE, RB</sub>	4 - 4
Mean value:	4
Category:	M <sub>DE</sub> RB 5

### 1.3 Thermal and weathering properties

#### **1.3.1 Magnesium sulfate test**

Test method: EN 1367-2:2009 and EN 13450:2002/AC:2004, annex G

Value [M.-%]:	0,1 - 0,1
Mean value MS:	0,1 M.-%

#### **1.3.2 Density**

Test method: EN 1097-6:2013, annex B

Mass of dry sample:	2.306,8 g
Density $\rho_{cm}$ :	2,67 Mg/m <sup>3</sup>

#### **1.3.3 Water absorption**

Test method: EN 1097-6, annex B

Single values [M.-%]:	0,1 - 0,2 - 0,2 - 0,2 - 0,2 0,2 - 0,2 - 0,2 - 0,2 - 0,2
Mass of dry sample:	2.306,8 g
Water absorption $WA_{cm}$ :	0,2 M.-%

## 2. Assessment

The aggregates can be assigned to the following categories and values according EN 13450:

	<u>Category</u>
• Los-Angeles-Coefficient	LA <sub>RB</sub> 16
• Impact value	SZ <sub>RB</sub> 18
• Resistance to wear	M <sub>DE</sub> RB 5
• Magnesium sulfate test	MS = 0,1 M.-%
• Density	$\rho_{cm} = 2,67 \text{ Mg/m}^3$
• Water absorption	WA <sub>cm</sub> = 0,2 %

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