

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 _{RB} 16

1.1.2 Resistance to impact

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

Values SZ _{RB} [%]:	17,1 - 17,2 - 18,5
Mean value SZ _{RB} [%]:	18
Category:	SZ _{RB} 18

1.2 Resistance to wear (micro-Deval)

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

Values M _{DE, RB}	4 - 4
Mean value:	4
Category:	M _{DE} 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 ρ_{cm} :	2,67 Mg/m ³

1.3.3 Water absorption

Test method: EN 1097-6, annex B

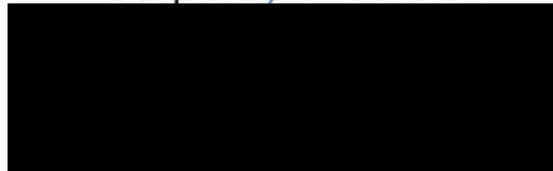
Single values [M.-%]:	0,1 - 0,2 - 0,2 - 0,2 - 0,2
	0,2 - 0,2 - 0,2 - 0,2 - 0,2
Mass of dry sample:	2.306,8 g
Water absorption WA_{cm} :	0,2 M.-%

2. Assessment

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

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

a s p h a l t - l a b o r



Lab management