

TEST CERTIFICATE

No. 22 001 0519

Contractor

Kalle GmbH
Rheingastr. 190 -196

Date of order: 10 June 2013
Receipt of sample: 14 June 2013

65203 Wiesbaden

Assignment

Extension of the test report No. 22 000 7255 of the oil binding agent "Fluisorb[®]" according to the Specifications for Oil Binding Agents; revised version, February 28, 1990 – published by the Federal Environment Ministry on 12 March 1990 and 23 April 1998.

Description

Oil absorbent based on
cellulose sponge

Identification

"Fluisorb[®]"

1. Test Specifications / Underlying Regulations

Specifications for Oil Binding Agents, revised on 28 February 1990



Deutsche
Akkreditierungsstelle
D-PL-11142-01-02

This test certificate is valid until 18 July 2019

The test results refer only to the above mentioned test/test specimen. Only the unchanged form and contents of test certificates may be published or copied without approval of the MPA NRW. The condensed version of the test results is permissible only with approval of the MPA NRW.

This test certificate consists of 3 pages.

2. Summary of the Results

The oil binding agent "Fluisorb[®]" complies with the Specifications for Oil Binding Agents for type III R.

2.1 General Information

2.1.1 In response to the question concerning the occupational medical and environmental harmlessness of using oil binding agents for petroleum accidents (paragraph 2.1.5.1 of the Specifications), an occupational medical and environmental certificate dated 2 July 2013 is available from the Hygiene Institute in Gelsenkirchen.
 Requirements: Refer to the Institute

2.1.2 Corresponding warranty explanations (10 June 2013) from the manufacturer are available concerning the guarantee of the general specifications according to paragraphs 2.1.1 b, c, d and the shelf life according to paragraph 2.1.6 of the Specifications for Oil Binding Agents.

2.2 Packed weight (according to paragraph 4.3) 82 g/L

The tests had been carried out with conventional diesel fuel according to EN 590 – TC 19 - Mineralöl-Sommertyp.

2.3 Requirements for oil binding agents (according to paragraph 4.4)

35 g	oil absorbent	absorbs	100 g oil
349 ml	oil absorbent	absorbs	100 ml oil
1 liter	oil absorbent	absorbs	0.29 L oil
1 kg	oil absorbent	absorbs	3.48 L oil
1 kg	oil absorbent	absorbs	2.86 kg oil

A correction according to paragraph 4.7 of the Specifications was necessary when determining the requirements for oil binding agents.

Requirements for oil binding agents
 Typ III max. 350 volume %

Acquired value: 349 volume %

Requirements for oil binding agents are without consideration of additional requirements due to compressive stress.
 1 liter oil absorbent absorbs 0.60 L oil.

2.4 Ability to hold oil (according to paragraph 4.7)

After an exposure time of two hours no oil could be released. Additional requirements of the oil absorbent in the exposure test was 106 weight %.

2.5 Fraction size (according to paragraph 4.8)

> 4 mm	8.3 Gew.-%
4 – 0.5 mm	86.8 Gew.-%
0.5 – 0.125 mm	3.7 Gew.-%
< 0.125 mm	1.2 Gew.-%

Permitted fractions (> 4 mm): 10 weight %

Acquired value: 8.3 weight %

2.7 Suitability for traffic areas (according to paragraph 4.9)

The test produced a change in the SRT value by 2 units or 4 %.

Maximum change allowed in the SRT value: 20 %

Acquired value: 4 %

The oil absorbent is therefore marked as being suitable for traffic areas.

2 Overall Evaluation

The tested oil binding agent "Fluisorb[®]" complies with the Specifications for Oil Binding Agents for type I, II, III R published by the Federal Environment Ministry on March 12, 1990 and April 23, 1998.

This test certificate is valid until 18 June 2019. It can be renewed according to No. 5 of the Specifications.

Dortmund 25 February 2014
By order

Pradel