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Date Jul 12, 2023
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Test Report


Order No.: 55279031
Test Report No.: PB2338013
Version 1
Client: RAW Handel und Beratungs GmbH
Eichstetter Straße 55
79232 March-Neuershausen

Examination of an Oil Adsorbent according to DWA-A 716-1 & 716-9

Date of order: Jun 07, 2023
Sample received: Jun 07, 2023
Sample designation: Elephant Sorb Special (Raw material: Pumice)
Testing period: Jun 07, 2023 - Jul 12, 2023

Test result:
- see following pages -

Accredited Analytical Laboratory D-PL-11060-03-00 in Stuttgart and Halle (Saale)

Sample no.:	55279031001
Sample designation:	Elephant Sorb Special
Sample description:	Oil Adsorbent
Picture of the sample:	

1 General Requirements according to “Arbeitsblatt DWA-A 716-1”⁽ⁿ⁾

1.1 General-Safety Considerations

The examined oil sorbent consists of pumice that is not classified as a hazardous substance. Under usual storage conditions, no decomposition or auto-ignition is expected

1.2 Occupational-Health Assessment

Aqueous solutions of the oil adsorbent show a pH of 10.2 (alkaline). Resulting, dermal contact is possible for a short time. Dust characteristics of the oil sorbent are not a matter of concern, nevertheless, long-term exposition has to be prevented.

1.3 Environmental-Impact Assessment

Results of the eluate examination are attached as appendix to this test report. It was ascertained that the oil sorbent does comply with all limits of the German “Deponieverordnung”.

2 Specific Requirements according to DWA-A 716-9⁽ⁿ⁾

2.1 Variation of Slip Resistance (SRT Test) according to DWA-A 716-9:

Parameter	Unit	Result	
Change in SRT value*	%	2	4**

*Maximum change in SRT value: 15%.

** Result of the last test 55260489-7

3 Labeling and Packing

Packing design and labeling has to be carried out according to DWA-A 716-9: 5.

4 Conclusion

The oil sorbent “Elephant Sorb Special” does comply with all criteria of DWA-A 716-1 (July 2011) and DWA-A 716-9 (December 2014) for the group “R”.

The positive test result leads to an entry in the German list “Liste der geprüften Ölbindemittel”.

The entry is limited until **12.07.2028** and can be extended according to DWA-A 716-1 by request.

Remarks:

The test results refer exclusively to the samples specified. The decision rule for the evaluation of conformity of test results can be found at <https://www.dekra.de/media/entscheidungsregel-bewertung-konformitaet-pruefergebnisse-d-v3-pdf.pdf> <https://www.dekra.de/media/entscheidungsregel-bewertung-konformitaet-pruefergebnisse-gb-v3-pdf.pdf>

A reproduction in excerpts of the test report must not be made without the written consent of the test laboratory. Chemical and material blanks are taken into account when determining the results. Samples will be stored for max. 6 months (for exceptions and specific storage times see QMH).

Declaration:

a = accredited test method, n = not accredited test method,

Pa = Analysis carried out by partner laboratory (accredited test method), Pn = Analysis carried out by partner laboratory (not accredited test method),

Ha = Analysis carried out by DEKRA lab Halle (accredited test method), Hn = Analysis carried out by DEKRA lab Halle (not accredited test method),

SBa = Analysis carried out by DEKRA lab Saarbrücken (accredited test method), SBn = Analysis carried out by DEKRA lab Saarbrücken (not accredited test method),

Ba = Analysis carried out by DEKRA lab Bretten (accredited test method), Bn = Analysis carried out by DEKRA lab Bretten (not accredited test method)

Stuttgart, Jul 12, 2023

DEKRA Automobil GmbH

Laboratory for Environmental and Product Analysis

Daniela Schlosser

Project Manager Automotive Fluids and Dangerous Goods

Material Eluate:

Parameter	Unit	Sample	Limits	
			DK I / W**	DK II / R**
pH* (25°C)	-	10.2	5,5 – 13	5,5 – 13
DOC	mg/L	4.8	≤ 50	≤ 80
Phenol Index	mg/L	< 0.01	≤ 0,2	≤ 50
Arsenic	mg/L	0.025	≤ 0,2	≤ 0,2
Lead	mg/L	< 0.01	≤ 0,2	≤ 1
Cadmium	mg/L	0.0038	≤ 0,05	≤ 0,1
Copper	mg/L	< 0.01	≤ 1	≤ 5
Nickel	mg/L	< 0.01	≤ 0,2	≤ 1
Mercury	mg/L	< 0.0002	≤ 0,005	≤ 0,02
Zinc	mg/L	0.013	≤ 2	≤ 5
Chloride	mg/L	6.3	≤ 1500	≤ 1500
Sulfate	mg/L	5.7	≤ 2000	≤ 2000
Cyanide, lfs.	mg/L	< 0.01	≤ 0,1	≤ 0,5
Fluoride	mg/L	0.53	≤ 5	≤ 15
Barium	mg/L	< 0.01	≤ 5	≤ 10
Chromium	mg/L	< 0.01	≤ 0,3	≤ 1
Molybdenum	mg/L	< 0.02	≤ 0,3	≤ 1
Antimony	mg/L	< 0.005	≤ 0,03	≤ 0,07
Selenium	mg/L	< 0.01	≤ 0,03	≤ 0,05
Total amount of dissolved material	mg/L	700	≤ 3000	≤ 6000

*Limit for oil-bindings agents: pH 4 – 11

**DK = "Deponieklasse"

Parameterliste : Eluate

Parameter	Method	Limit of quantification
Eluate preparation	DIN EN 12457-4:2003-01 ^(Ha)	-
pH-value (@ 25°C)	DIN EN ISO 10523 (C 5):2012-04 ^(Ha)	-
DOC	DIN EN 1484 (H 3):2019-04 ^(Ha)	0,1 mg/l
Phenol-Index	DIN 38409-16:1984-06 ^(Ha)	0,01 mg/l
Arsenic	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Lead	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Cadmium	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,001 mg/l
Copper	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Nickel	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Mercury	DIN EN ISO 12846 (E 12):2012-08 ^(Ha)	0,0002 mg/l
Zinc	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Chloride	DIN EN ISO 10304-1 (D 20):2009-07 ^(Ha)	0,1 mg/l
Sulfate	DIN EN ISO 10304-1 (D 20):2009-07 ^(Ha)	0,1 mg/l
Cyanide	DIN 38405-D 13:2011-04 ^(Ha)	0,01 mg/l
Fluoride	DIN EN ISO 10304-1 (D 20):2009-07 ^(Ha)	0,1 mg/l
Barium	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Chromium	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Molybdenum	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Antimony	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,005 mg/l
Selenium	DIN EN ISO 17294-2 (E 29):2017-01 ^(Ha)	0,01 mg/l
Total amount of dissolved material	DIN 38409-1:1987-01 ^(Ha)	100 mg/l