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Test Report No.: 55256139

Examination of an oil adsorbent according to DWA-A 716-1 & 716-9

Client:	PREVOR Moulin de Verville 95760 Valmondois FRANCE
Date of order:	Feb 23, 2017
Sample received:	Mar 17, 2017
Sample designation:	Polycaptor (Raw material: Synthetic product based on amorphous silica and natural compounds)
Number of samples:	1 sample
Testing Period::	17.03.2017 - 19.04.2017

Test Result:

- following pages -

Sample No.:	55256139001
Sample designation:	Polycaptor

“Polycaptor“ oil-binding agent from Prevor.

1. General Requirements according to “Arbeitsblatt DWA-A 716-1”

1.1 General-Safety Considerations

The examined oil sorbent consists of a synthetic product based on amorphous silica and natural compounds, therefore, only of non-hazardous materials. 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 7.7 (neutral). Resulting, dermal contact is possible without hesitation. Dust characteristics of the oil sorbent are a matter of concern, long-term exposition has to be prevented, and also a deployment in windy conditions is not reasonable.

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 complies with all limits of the German “Deponieverordnung”.

2 Specific Requirements according to DWA-A 716-9

2.1 Bulk Density according to DWA-A 716-9: 4.2

Parameter	Unit	Result
Bulk density	g/l; kg/m^3	275

2.2 Grain-Size Distribution according to DWA-A 716-9: 4.3

Parameter	Unit	Result
Coarse grain > 4 mm	% (w/w)	0
4 mm - 0,5 mm	% (w/w)	0.2
0.5 mm – 0.125 mm	% (w/w)	77.7
Fine grain < 0.125 mm	% (w/w)	22.1

Fine grain < 0.125 mm is 22.1% (w/w) and therefore, this value has to be printed on the packaging.

2.3 Absorption Capacity in a Westinghouse Sieve and Holding Capacity according to DWA-A 716-9: 4.4

2.3.1 Absorption Capacity of Water

Parameter	Unit	Result
R_w*	% (w/w)	321
R_w*	% (v/v)	88

**Water absorption after 30 min.*

2.3.2 Absorption Capacity of Oil

Parameter	Unit	Result
R_h*	% (w/w)	257
R_h*	% (v/v)	86

**Oil absorption after 30 min*

2.3.3 Oil-Holding Capacity

Parameter	Unit	Result
R_{h24}*	% (w/w)	243
R_{h24}*	% (v/v)	81

Oil-Holding capacity after 24 h

2.4 Oil-Holding Capacity under Pressure according to DWA-A 716-9: 4.5

Parameter	Unit	Result
Excess needed under pressure	% (w/w)	3

Final results:

Required amount of oil-binding agent is 120% (v/v). The limit is 350% (v/v).

1 L oil-binding agent binds 0.83 L oil

1 kg oil-binding agent binds 2.50 kg oil

1 kg oil-binding agent binds 3.03 L oil

2.5 Variation of Slip Resistance (SRT Test) according to DWA-A 716-9: 4.6

Parameter	Unit	Result
Change in SRT value*	%	2

* *Maximum change in SRT value: 15% without purification by surfactants.*

3 Labeling and Packaging

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

4. Conclusion

The oil-binding agent “Polycaptor” **does** comply with all criteria of DWA-A 716-1 (July 2011) and DWA-A 716-9 (December 2014) for the group “R”.

The certificate is limited until 19.04.2022 and can be extended by request according to DWA-A 716-1.

Hints:
The test results refer exclusively to the samples specified. 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).

Stuttgart, 03.05.2017

DEKRA Automobil GmbH
Laboratory for Environmental and Product Analysis

Dr. Sebastian Schmiechen
Project Manager Automotive Fluids and Dangerous Goods

Material Eluate:

Parameter	Unit	Sample	Limits	
			DK* I	DK* II
pH** (25°C)	-	7.7	5.5 – 13	5.5 – 13
DOC	mg/l	17	≤ 50	≤ 80
Phenol Index	mg/l	< 0.01	≤ 0.2	≤ 50
Arsenic	mg/l	< 0.01	≤ 0.2	≤ 0.2
Lead	mg/l	< 0.01	≤ 0.2	≤ 1
Cadmium	mg/l	< 0.001	≤ 0.05	≤ 0.1
Copper	mg/l	< 0.01	≤ 1	≤ 5
Nickel	mg/l	< 0.01	≤ 0.2	≤ 1
Mercury	mg/l	< 0.0005	≤ 0.005	≤ 0.02
Zinc	mg/l	< 0.01	≤ 2	≤ 5
Chloride	mg/l	20	≤ 1500	≤ 1500
Sulfate	mg/l	710	≤ 2000	≤ 2000
Cyanide, lfs.	mg/l	< 0.01	≤ 0.1	≤ 0.5
Fluoride	mg/l	< 0.1	≤ 5	≤ 15
Barium	mg/l	0.024	≤ 5	≤ 10
Chromium	mg/l	< 0.01	≤ 0.3	≤ 1
Molybdenum	mg/l	< 0.01	≤ 0.3	≤ 1
Antimony	mg/l	< 0.01	≤ 0.03	≤ 0.07
Selenium	mg/l	< 0.01	≤ 0.03	≤ 0.05
Total amount on dissolved material	mg/l	1200	≤ 3000	≤ 6000

**DK = "Deponieklasse"*
***Limit for oil-bindings agents: pH 4 - 11*