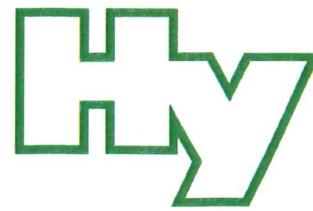


Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

Director: Dr. Thomas-Benjamin Seiler

Legal Entity: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Contact person: Dr. Nicole Krüger
Translation of: K-358115-22-Kr/Lk

Gelsenkirchen, 12.05.2022

TEST REPORT according to the requirements of DIN EN 12873-1:2014-09 and DIN EN 1420:2016-05

Order of: 20-December-2021

Field of application: containers and tanks (P1) in drinking water installations, including repair systems cold water and warm water (23 °C and 60 °C)

Product: „program for reservoirs type AQF 570 until 1000; RD/AQF 1050 until 2000; Trio/TrioSafe 750 until 1500 and PE storage tanks 750 until 4000“, uncoloured natural

Test Specimen: container segments of program for reservoirs made of Lupolen HD-PE 4261 AG UV, uncoloured natural, dimensions: 200 x 200 mm, 200 x 80 mm, 200 x 60 mm, 100 x 100 mm and 150 x 150 mm (manufacturer's information)

Production Place: DEHOUST GmbH, Gutenbergstraße 5 – 7, 69181 Leimen

Date of receipt: 16-December-2021

Sampler: transmitted by mail

Start of migration test: 25-January-2022

End of test: 23-February-2022

The Director of the Hygiene-Institute
on behalf of

Dr. rer. nat. Nicole Krüger
Head of the Dept. for water
hygienic material testing

This test report consists of 3 pages.

Our general terms and conditions apply (<http://www.hyg.de>). The results and evaluations refer to the groups of test items. Our expert assessment is made on the premise that all base materials used in production have been declared in their entirety and that no further materials have been added to the product. Our accreditation certificate is available at <http://www.hyg.de>. Results which do not fall within the accreditation are marked by symbol. The certificate shall not be reproduced, except in full, without written approval of the Institute.



Deutsche
Akreditierungsstelle
D-PL-13042-02-00

Test results cold water (23 °C)

Product: „program for reservoirs type AQF 570 until 1000; RD/AQF 1050 until 2000; Trio/TrioSafe 750 until 1500 and PE storage tanks 750 until 4000”, uncoloured natural

Specimen: container segments of program for reservoirs made of Lupolen HD-PE 4261 AG UV, uncoloured natural, dimensions: 200 x 200 mm, 200 x 80 mm, 200 x 60 mm, 100 x 100 mm and 150 x 150 mm (manufacturer's information)

Formulation: submitted and checked (no. 11816)

Conversion factor: 4 (Containers and tanks in drinking water installations, including repair systems)

S/V-ratio migration test according to DIN EN 12873-1:2014-09: 16.80 dm² / 3.40 dm³ Δ 4.94 dm⁻¹

S/V-ratio odour/flavour test according to DIN EN 1420:2016-05: 8.40 dm² / 3.40 dm³ Δ 2.47 dm⁻¹

Parameter	Method	Test cycle / Result			Requirements according to KTW-BWGL ¹⁾
		1 4 th day	2 7 th day	3 10 th day	
Colour [mg/l Pt] / (pH value)	DIN EN ISO 7887:2012-04 method C	< 2 / (6.1)	< 2 / (5.7)	< 2 / (5.8)	\leq 10 mg/l Pt
Turbidity [FNU]	DIN EN ISO 7027:2016-11	< 0.1	< 0.1	< 0.1	\leq 0.5 FNU
Tendency to foam formation	HY-14.5, 2008-11	none	none	none	n.s.e.
Threshold odour number (23 °C)	DIN EN 1622:2006-10	1	1	1	\leq 2
Total organic carbon (TOC) C _{tap} mg/l	DIN EN 1484:2019-04	< 0.02	< 0.02	< 0.02	\leq 0.5
Formulation specific parameters with restrictions		Four formulation specific parameters with restrictions were analysed within the test water fractions. The Guidance levels are passed. ²⁾			Guidance Level passed

The test water fractions for the analysis of odour, turbidity, colour and foam formation were prepared according to DIN EN 1420:2016-05.

The test water fractions for the analysis of TOC, additional parameters and formulation specific parameters were prepared according to DIN EN 12873-1:2014-09 or DIN EN 12873-2:2005-04.

¹⁾ KTW-BWGL, status 2021-03

²⁾ results are partially not accredited

Test results warm water (60 °C)

Product: „program for reservoirs type AQF 570 until 1000; RD/AQF 1050 until 2000; Trio/TrioSafe 750 until 1500 and PE storage tanks 750 until 4000”, uncoloured natural

Specimen: container segments of program for reservoirs made of Lupolen HD-PE 4261 AG UV, uncoloured natural, dimensions: 200 x 200 mm, 200 x 80 mm, 200 x 60 mm, 100 x 100 mm and 150 x 150 mm (manufacturer's information)

Formulation: submitted and checked (no. 11816)

Conversion factor: 4 (Containers and tanks in drinking water installations, including repair systems)

S/V-ratio migration test according to DIN EN 12873-1:2014-09: 10.44 dm² / 2.09 dm³ \leq 5.00 dm⁻¹

S/V-ratio odour/flavour test according to DIN EN 1420:2016-05: 2.20 dm² / 0.88 dm³ \leq 2.50 dm⁻¹

Parameter	Method	Test cycle / Result				Requirements according to KTW-BWGL ¹⁾
		1 2 nd day	2 3 rd day	3 4 th day	7 10 th day	
Colour [mg/l Pt] / (pH value)	DIN EN ISO 7887:2012-04 method C	< 2 / (7.6)	< 2 / (5.6)	< 2 / (7.2)	< 2 / (7.0)	\leq 10 mg/l Pt
Turbidity [FNU]	DIN EN ISO 7027:2016-11	< 0.1	< 0.1	< 0.1	< 0.1	\leq 0.5 FNU
Tendency to foam formationn	HY-14.5, 2008-11	none	none	none	none	n.s.e.
Threshold odour number (23 °C)	DIN EN 1622:2006-10	1	1	1	1	\leq 4
Total organic carbon (TOC) C _{tap} mg/l	DIN EN 1484:2019-04	< 0.06	< 0.06	< 0.06	< 0.06	\leq 0.5
Formulation specific parameters with restrictions		Four formulation specific parameters with restrictions were analysed within the test water fractions. The Guidance levels are passed. ²⁾				Guidance Level passed

The test water fractions for the analysis of odour, turbidity, colour and foam formation were prepared according to DIN EN 1420:2016-05.

The test water fractions for the analysis of TOC, additional parameters and formulation specific parameters were prepared according to DIN EN 12873-1:2014-09 or DIN EN 12873-2:2005-04.

¹⁾ KTW-BWGL, status 2021-03

²⁾ results are partially not accredited