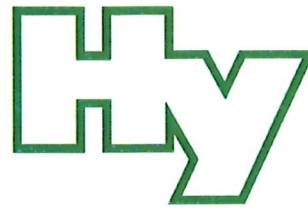


# Hygiene-Institut des Ruhrgebiets

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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Reference-No.: K-362297-22-Kr/st  
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Translation of: K-362296-22-Kr/st

Gelsenkirchen, 28.07.2022

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

**Order of:** 16-March-2022

**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", blue coloured

**Test Specimen:** container segments of program for reservoirs made of Lupolen HD-PE 4261 AG UV, blue coloured, dimensions: 20 x 20 x 0.35 cm, 20 x 8 x 0.35 cm, 20 x 6 x 0.35 cm, 10 x 10 x 0.35 cm and 15 x 15 x 0.35 cm (manufacturer's information)

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

**Date of receipt:** 14-March-2022

**Sampler:** transmitted by mail

**Start of migration test:** 10-May-2022

**End of test:** 08-June-2022

The Director of the Hygiene-Institute  
on behalf of

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

This test report consists of 3 pages.

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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", blue coloured

**Specimen:** container segments of program for reservoirs made of Lupolen HD-PE 4261 AG UV, blue coloured, dimensions: 20 x 20 x 0.35 cm, 20 x 8 x 0.35 cm, 20 x 6 x 0.35 cm, 10 x 10 x 0.35 cm and 15 x 15 x 0.35 cm (manufacturer's information)

**Formulation:** submitted and checked (no. 12075)

**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:** 16.56 dm<sup>2</sup> / 3.31 dm<sup>3</sup> ≤ 5.00 dm<sup>-1</sup>

**S/V-ratio odour/flavour test according to DIN EN 1420:2016-05:** 4.28 dm<sup>2</sup> / 1.71 dm<sup>3</sup> ≤ 2.50 dm<sup>-1</sup>

Parameter	Method	Test cycle / Result			Requirements according to KTW-BWGL <sup>1)</sup>
		1 4 <sup>th</sup> day	2 7 <sup>th</sup> day	3 10 <sup>th</sup> day	
Colour [mg/l Pt] / (pH value)	DIN EN ISO 7887:2012-04 method C	< 2 / (5.8)	< 2 / (5.6)	< 2 / (5.6)	≤ 10 mg/l Pt
Turbidity [FNU]	DIN EN ISO 7027:2016-11	< 0.1	< 0.1	< 0.1	≤ 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	≤ 2
Total organic carbon (TOC) C <sub>tap</sub> mg/l	DIN EN 1484:2019-04	< 0.02	< 0.02	< 0.02	≤ 0.5
Formulation specific parameters with restrictions		Seven formulation specific parameters with restrictions were analysed within the test water fractions. The Guidance levels are passed. <sup>2)</sup>			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.

<sup>1)</sup> KTW-BWGL, status 2021-03

<sup>2)</sup> 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", blue colored

**Specimen:** container segments of program for reservoirs made of Lupolen HD-PE 4261 AG UV, blue coloured, dimensions: 20 x 20 x 0.35 cm, 20 x 8 x 0.35 cm, 20 x 6 x 0.35 cm, 10 x 10 x 0.35 cm and 15 x 15 x 0.35 cm (manufacturer's information)

**Formulation:** submitted and checked (no. 12075)

**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:** 9.37 dm<sup>2</sup> / 1.87 dm<sup>3</sup> ± 5.01 dm<sup>-1</sup>

**S/V-ratio odour/flavour test according to DIN EN 1420:2016-05:** 4.28 dm<sup>2</sup> / 1.71 dm<sup>3</sup> ± 2.50 dm<sup>-1</sup>

Parameter	Method	Test cycle / Result				Requirements according to KTW-BWGL <sup>1)</sup>
		1 2 <sup>nd</sup> day	2 3 <sup>rd</sup> day	3 4 <sup>th</sup> day	7 10 <sup>th</sup> day	
Colour [mg/l Pt] / (pH value)	DIN EN ISO 7887:2012-04 method C	< 2 / (6.1)	< 2 / (5.7)	< 2 / (5.9)	< 2 / (5.8)	≤ 10 mg/l Pt
Turbidity [FNU]	DIN EN ISO 7027:2016-11	< 0.1	< 0.1	< 0.1	< 0.1	≤ 0.5 FNU
Tendency to foam formation	HY-14.5, 2008-11	none	none	none	none	n.s.e.
Threshold odour number (23 °C)	DIN EN 1622:2006-10	2	2	2	1	≤ 4
Total organic carbon (TOC) c <sub>tap</sub> mg/l	DIN EN 1484:2019-04	< 0.06	< 0.06	< 0.06	< 0.06	≤ 0.5
Formulation specific parameters with restrictions		Seven formulation specific parameters with restrictions were analysed within the test water fractions. The Guidance levels are passed. <sup>2)</sup>				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.

<sup>1)</sup> KTW-BWGL, status 2021-03

<sup>2)</sup> results are partially not accredited