

GROUTTECH
Industrieweg 51
NL-8071 CS Nunspeet
Nederland

Geesthacht, 27.09.2023

Test Certificate

(This test was implemented in accordance with the requirements of the evaluation criteria document for plastics and other materials in contact with drinking water (KTW-BWGL, German Federal Health Department) dated March 2022)

Applicant: GROUTTECH
Industrieweg 51
NL-8071 CS Nunspeet
Nederland

Product: **Grouttech® 1405**
polyurethane injection resin

Test type: product testing

According to the test report dated September 27, 2023 the test boards **Lab.-No. U-23-07696-003** **Grouttech® 1405** fulfill the requirements for use in the drinking water sector of the KTW- recommendations for the following

Application area(s)	Temperature range(s)		
	cold water	warm water	hot water
Pipes ID < 80 mm	--	--	--
Pipes 80 mm ≤ ID < 300 mm	--	--	--
Pipes ID ≥ 300 mm	--	--	--
Equipment gear (Fittings), components in container	--	--	--
sealents, lubricants	fulfilled	--	--
container, repair system	--	--	--

if the material is suitable for these in technical terms.

Head of Department:
(Dr. D. Reinhardt)

The validity of this report is 5 years from the date of issue and can be extended once for another 5 years.

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Lab-No.:	U-23-07696-003	Analysis:	Chemistry	TOC
Manufacturer:	GROUTTECH	Proportion surface/ volume:	0.2 dm ⁻¹	5 dm ⁻¹
Type of sample:	polyurethane injection resin	Surface of test sample:	0,539 dm ²	0,538 dm ²
Sample name:	Grouttech® 1405	Volume of test water:	2,696 L	0,108 L

Test results cold water (23 ± 2 °C):

Parameter	after 3 days	after 6 days	after 9 days	KTW-requirements after 9 days
absorption coefficient „colour“ (410nm) mg/L Pt	5,7	5,9	5,4	≤ 10 DIN EN ISO 7887
pH value	8,29	8,26	8,09	DIN 38404 C5
Turbidity FNU	0,12	0,13	0,12	≤ 0,5 DIN EN ISO 7027
Tendency of foam formation	n.c.i.	n.c.i.	n.c.i.	n.c.i.
Threshold odour number (20 °C)	1	1	1	≤ 2
TOC (c _{tap}) mg/L	< 0,001	< 0,001	< 0,001	≤ 0,5 DIN EN 1484

n.c.i. = not considerably influenced
conversion factor (K_r) = 0,005 (P4)

Assessment:

The provided test samples of **Grouttech® 1405** fulfill the requirements for use in the drinking water sector according to the valuation basis of the German Federal Health Department dated March 2022 for the application "sealents, lubricants".

Aromatic amines were qualitatively not detectable.

Head of Department:

(Dr. D. Reinhardt)

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