

GROUTTECH  
Industrieweg 51  
NL-8071 CS Nunspeet  
Nederland

Geesthacht, 04. November 2019

**Test Certificate**  
according to the KTW recommendations  
(Federal Health Gazette 20, 1977ff)

(This test was implemented in accordance with the requirements of the KTW-recommendation of October 2008.)  
Note: The actual state of the KTW recommendations given by the German Federal Environmental Agency (UBA) was published in March 2016.

Applicant: GROUTTECH  
Industrieweg 51  
NL-8071 CS Nunspeet  
Nederland

Product: GROUTTECH 4170W  
Epoxy resin

Test type: Product testing

According to the test report dated November 04, 2019 the test boards Lab.-No. 115995/00/01 **GROUTTECH 4170W** 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
A Pipes	--	--	--
B Containers	--	--	--
C Equipment gear	--	--	--
D1 Large-surface sealants	fulfilled	--	--
D2 Small-surface sealants	--	--	--

if the material is suitable for these in technical terms.

Head of laboratory:  
(Dr. S. Dageförde)



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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### Test report

(This test was implemented in accordance with the requirements of the KTW recommendation from 1977 dated October 2008.)  
 Note: The actual state of the KTW recommendations given by the German Federal Environmental Agency (UBA) was published in March 2016.

Laboratory-No.:	115995/00/01	KTW-classification:	D1 "Large-surface sealants "
Manufacturer:	Grouttech	Proportion of surface and volume:	1:25 cm <sup>2</sup> /cm <sup>3</sup>
Type of sample:	Epoxy resin	Test sample surface:	53.3 cm <sup>2</sup>
Sample name:	Grouttech 4170W	Test water volume:	1330 mL

#### Test results:

Parameter	after 3 days	after 6 days	after 9 days	KTW-requirements after 9 days
pH	8.13	8.20	<b>8.12</b>	<b>6.5–9.5</b> DIN 38404 C5
absorption coefficient „colour“ (436nm)1/m	0.11	< 0.10	<b>&lt; 0.10</b>	<b>n.c.i.</b> (≤0.5) DIN EN ISO 7887
Turbidity TE/F	0.18	<0.10	<b>&lt;0.10</b>	<b>n.c.i.</b> (≤1.5) DIN EN ISO 7027
Tendency of foam formation	n.c.i.	n.c.i.	<b>n.c.i.</b>	<b>n.c.i.</b>
Threshold odour number (20°C)	1	1	<b>1</b>	≤2
TOC (mg C/m <sup>2</sup> *day)	83.2	30.9	<b>20.6</b>	≤60 DIN EN 1484
Oxidation reaction with chlorine (mg Cl <sub>2</sub> /m <sup>2</sup> *day)	2.6	2.5	<b>2.5</b>	≤75 DIN EN ISO 7393-2

n.c.i. = not considerably influenced

#### Assessment:

The provided test samples of **Grouttech 4170W** fulfill the requirements for use in the drinking water sector according to the KTW recommendations of the German Federal Health Department dated Oktober 2008 for the application range D1 " Large-surface sealants" (surface/volume = 1:25 cm<sup>2</sup>/cm<sup>3</sup>).

**Head of laboratory:**  
 (Dr. S. Dageförde)



The validity of this report ends 5 years after the date of issue and cannot be extended thereafter.