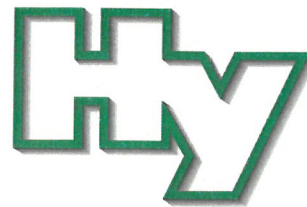


Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

Direktor: Prof. Dr. rer. nat. L. Dunemann

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Hyosung Chemical Corporation
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06578 SEOUL
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Reference: W-315744e-19-SI/Krü
Contact person: Mrs. Dr. Ch. Schell

Gelsenkirchen, 25.07.2019

TEST CERTIFICATE

Enhancement of Microbial Growth on Materials to Come into Contact with Drinking water Test pursuant to DVGW Technical Standard W 270, November 2007

Client: Hyosung Chemical Corporation
235, Banpo-daero, Seocho-gu
06578 SEOUL
REPUBLIC OF KOREA

Test material: M73FG9A
M93FG9A

Test method: Material test

The following materials:

- **M73FG9A** (test report **W-315744e-19-SI/Krü** of **25.07.2019**) and
- **M93FG9A** (test report **W-315745e-19-SI/Krü** of **25.07.2019**)

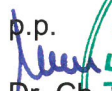
are conform to the requirements for the use in the area of drinking water systems pursuant to DVGW Technical Standard W 270. Details regarding testing procedure and test results are itemized in the test reports.

This test certificate also covers the range of materials from **M930F** to **M73FG9A** (all in material colour). In detail it concerns the compounds **Ma30F** to **Ma3FGbA** whereat (a) stands for the numbers 1, 3 – 7, 9 (molecular weight) and (b) stands for 1 - 9 (GF 5% - 50%). Both descriptions in combination indicate the relative molecular weight and glass fibre content.

This test certificate is valid from the date of issue and, given that the conditions and requirements remain unaltered, expires on **21.03.2021**.

The Director of the Institute

p.p.


Dr. Ch. Schell
Head of Laboratory
Department of Water Hygiene and Environmental Microbiology

The test results and assessments refer exclusively to the examined test specimens and all applicable statutory regulations. The validity of the document expires in case of modifications in the composition of the material or the processing conditions. This present document may only be published and reproduced unabridged and unaltered. This document is no DVGW certification.

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V., Vereinsregister: **VR 519** Amtsgericht Gelsenkirchen, USt-ID: **DE125018356**
Vorstand: Prof. Dr. Werner Schlake (Vors.), Prof. Dr. Jürgen Kretschmann, Dr. Emanuel Grün, Dr. Dirk Waider, Prof. Dr. Lothar Dunemann (geschäftsführ. Vorstand)