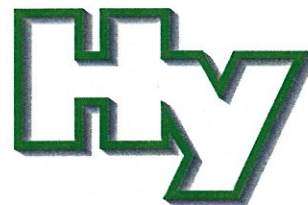


# Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie  
Direktor: Prof. Dr. rer. nat. L. Dunemann



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Reference: W-224377e-12-SI  
Before: **W-154485e-07-SI**  
Responsible: Dr. Ch. Schell

Gelsenkirchen, 07.12.2012

## TEST CERTIFICATE

(Prolongation of test certificate W-154485e-07-SI)

on the promotion of microbial growth on materials intended for use  
in drinking water systems pursuant to the statutory provision  
DVGW Code of Practice W 270, as of February 2007 (E)

**Client:** Braskem S/A  
Via Oeste Lote 5 Passo Raso  
III Pólo Petroquímico  
95853-000-TRIUNFO  
RS BRAZIL

**Test material:** IDEALIS 500

**Test method:** Material test

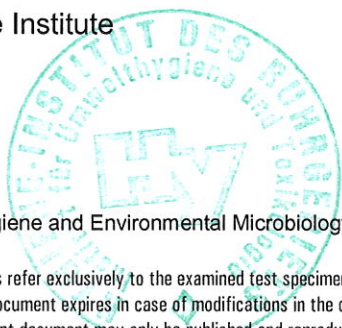
According to test report **W-154485e-07-SI** of 29.08.2007, the material **IDEALIS 500** is conform to the requirements for the use in the area of drinking water systems pursuant to DVGW Technical Standard W 270. Details regarding testing procedure and test results are itemized in the test report.

This test certificate is valid from the date of issue and, given that the conditions and requirements remain unaltered, expires on **29.08.2017**.

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