

Annex 1.1 to Certification Agreement no. 5698.19 DRAFT



Swiss antimicrobial expertise
since 1935

Between

SANITIZED AG, Switzerland ("SANITIZED AG")

and

REPLAST GROUP S.R.L., Italy ("Certified Producer")

MATERIAL MASTER DATA SHEET

SANITIZED AG grants to the Certified Producer the non-exclusive and non-transferable permission to use the Sanitized® Ingredient Brand under the provisions of the Certification Agreement no. 5698.19 as ingredient brand for the labelling of the following semi-finished article.

Semi-finished article

Composition of material / Substrate
PE HD
Trade name of the article
ITALIANA CORRUGATI
Article type designation
Articles with special requirements – Group IV
Description (exact specification of the Article)
Pipes
SANITIZED test certificate no.



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License Standard: minimum-requirement to the impact/effect

Effect	Test method	Number of washings or other loading tests	Minimum requirements after washings or other loading tests	Remarks
No bacteria - no odor	ISO 22196 with Staphylococcus aureus (MRSA) ATCC 33592	nil	≥ 90% – Significant germ reduction	Treated with Sanitized® MB PE 23-70
No fungi	DIN EN ISO 846 A	nil	Rate 1 - Growth only visible with the microscope	Treated with Sanitized® MB PE 23-70

A condition to maintain the right to use the Sanitized® Ingredient Brand for the above article is the annual purchase of a minimum quantity of Sanitized® products

Sanitized® product	Minimum amount per year (in kg)
Sanitized® MB PE 23-70	April 2019 – March 2020 total 500 kg
Sanitized® MB PE 23-70	April 2020 – March 2021 total 700 kg

The testing and examination regarding the antimicrobial effect of the semi-finished article have led to satisfactory results for both parties (see test certificates mentioned above).

If the Certified Producer changes the recipe and/or the process of the treatment, new testing and respective examination are to be made.

For the purpose of the continuous quality control of the semi-finished article mentioned above, the Certified Producer will without further request provide SANITIZED AG with samples from the latest production batch for the execution of microbiological tests according to the licence standard as follows:



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Periodic quality controls

Number/Quantity
1 x / year
Due date (time unit, production unit, date)
April 1 st ,

With the delivery of the samples, the Certified Producer mandates SANITIZED AG with the execution of the respective microbiological tests according to the costs and under the conditions of the valid and applicable price list of SANITIZED AG.

Burgdorf, March 7th, 2019

Date: _____

SANITIZED AG



Italiana Corrugati S.p.A.
Loc. fonte del doglio 22/E
61026 Piandimeleto
Italien

Burgdorf, 23.02.2018

Test order No. 2018-0088

Date of order: 23.01.2018
Responsible:
Pages: 4

Methoden:

EN ISO 846 Section A
ISO 22196

Determination of mold resistance:
Quantitative analysis for determination of the
bacteriostatic activity; film 35x35mm; inoculum 120ul:

SANITIZED AG

A handwritten signature in blue ink, appearing to read 'E. Rohrbach'.

Erich Rohrbach
Head Microbiology

The findings are valid for the tested object(s) only. Filing record of report and documentation is 10 years.

Results

Description of sample

Sample number: **2018-0088-01** Received: 23.01.2018
Business: POLYMER Type: QC
Identification: Campione 0
Main Component: PE HD
Appearance: White
Field of Application: Pipes
Sanitized Products: -
Declared quantity:

Remark: Production sample

Test results of the SANITIZED-laboratory

Quantitative analysis for determination of the bacteriostatic activity:				
Method	Test point	Activity	Reduction in %	Evaluation
ISO 22196	Staphylococcus aureus (MRSA) ATCC 33592	0.20	36.90	Insufficient effect
Determination of mold resistance:				
Method	Test point	Growth rate	Surface area	Evaluation
EN ISO 846 Section A	Growth rate 0 to 5 after 4 weeks of incubation	1	Microscopic	Good mold resistance

Results

Description of sample

Sample number: **2018-0088-02** Received: 23.01.2018
Business: POLYMER Type: QC
Identification: Campione 1
Main Component: PE HD
Appearance: White
Field of Application: Pipes
Sanitized Products: Sanitized® MB PE 23-70
Declared quantity: 1%

Remark: Production sample

Test results of the SANITIZED-laboratory

Quantitative analysis for determination of the bacteriostatic activity:				
Method	Test point	Activity	Reduction in %	Evaluation
ISO 22196	Staphylococcus aureus (MRSA) ATCC 33592	>4.80	>99.99	Good effect
Determination of mold resistance:				
Method	Test point	Growth rate	Surface area	Evaluation
EN ISO 846 Section A	Growth rate 0 to 5 after 4 weeks of incubation	0	None	Excellent mold resistance

Results

Description of sample

Sample number: **2018-0088-03** Received: 23.01.2018
Business: POLYMER Type: QC
Identification: Campione 2
Main Component: PE HD
Appearance: White
Field of Application: Pipes
Sanitized Products: Sanitized® MB PE 23-70
Declared quantity: 2%

Remark: Production sample

Test results of the SANITIZED-laboratory

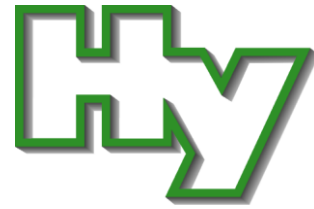
Quantitative analysis for determination of the bacteriostatic activity:				
Method	Test point	Activity	Reduction in %	Evaluation
ISO 22196	Staphylococcus aureus (MRSA) ATCC 33592	>4.80	>99.99	Good effect
Determination of mold resistance:				
Method	Test point	Growth rate	Surface area	Evaluation
EN ISO 846 Section A	Growth rate 0 to 5 after 4 weeks of incubation	0	None	Excellent mold resistance

Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

Director: Prof. Dr.rer.nat. Lothar Dunemann

Legal Entity: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Internet www.hyg.de

Our reference: W-324154ke-20-AB
Contact person: Dipl.-Ing. (FH) S. Horn

Gelsenkirchen, 11.05.2020

Test - certificate

hygiene-conformity check to the design requirements of
selected regulations

Test institute:	Hygiene Institut des Ruhrgebiets Institut für Umwelthygiene und Toxikologie Rotthauer Straße 21 49879 Gelsenkirchen
Test object:	AIR COR PEHD Art. 75
Manufacturer:	ITALIANA CORRUGATI S.P.A Via Foglia 11 61026 Lunano (PU)
Basis of the examination	✓ VDI 6022, sheet 1 (01/2018) ✓ SWKI VA104-01 (01/2019) ✓ ÖNORM H6021 (08/2016) ✓ ÖNORM H6038 (02/2020)
Validity period:	5 years 04/2020 – 04/2025
Test report:	W-324154k-20-AB



In conclusion it can be stated that the examined Plastic pipe "AIR COR PEHD Art. 75", as specified in the test report W-324154ke-20-AB, is in compliance with the above mentioned regulations.

(Dipl.-Ing. (FH) S. Horn)
Section head of Air Conditioning technology
Department of Water Hygiene, Environmental
and Microbiology

(A. Blankenberg)
clerk of Air Conditioning technology
State certified technician
Specialization in heating, air conditioning

issued 11.05.2020, Gelsenkirchen

Within the framework of the conformity check the hygiene-relevant requirements of the above mentioned regulations was examined. Requirements of other regulations that refer to the above mentioned regulations were not part of the examination. Additionally, the conformity check does not include a toxicological or sensory testing of the introduced materials.

Legal Entity: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V., Register: VR 519 Local Court Gelsenkirchen (Germany); VAT ID: DE125018356
Directorate: Prof. Dr. Jürgen Kretschmann (Head), Dr. Emanuel Grün, Dr. Dirk Waider, Joachim Löchte, Prof. Dr. Lothar Dunemann (Executive Member).

TEST REPORT

Description of the sample:

Identification: **RollAir**

Main Component: PE-HD (97%)

Minor Component: Colour White (3%)

Declared quantity of sanitized product: 2,0%

Finishing parameters: T max 200° C

Quantity analysis for determination of the bacteriostatic activity:

Method	Test Point	Activity	Reduction in %	Evaluation
ASTM E 2149-10	Staphylococcus aureus ATCC 6538	3,30	99,95%	Good effect

Quality control
FARAPLAN SRL