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SCHEDA PRODOTTO – *PRODUCT DATA SHEET*
FE1000 rev. 09 – 06/09/2012
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PTFE Vergine – FE1000

Certificazioni - *Certifications*

Prodotto certificato NSF 61, FDA, ACS, W270, WRAS, KTW, 3-A Sanitary Standard 20-27 (*)
NSF 61, FDA, ACS, W270, WRAS, KTW, 3-a Sanitary standard 20-27 certified product ()*

Valori ricavati da:

Test values from:

A - Tondo stampato e sinterizzato secondo ASTM D 4874
A - moulded and sintered rod according ASTM D 4874.

B - Tondo stampato e sinterizzato secondo ASTM D 4874
B - moulded and sintered rod according ASTM D 4874.

C - Tondo o tubo estruso.
C - Extruded rod or tube.

Materiali Forniti ricavati da:

Products made from:

Tondi e Manicotti a fascia grossa, Nastri e lastre sfogliati
Moulded rods and thick walled tubes, skived tapes and sheets

Lastre stampate e Manicotti a fascia sottile
Moulded sheets and thin walled tubes.

Tondi e tubi estrusi a secco
Extruded rods and tubes

Caratteristiche Fisiche

Physical Properties

Caratteristica Property	Metodo di prova Test method	U.M. Units	Valori tipici misurati Typical Measured values		
Tipo di Prodotto - <i>product type</i>			A	B	C
Densità – <i>Density</i>	ASTM D 792	gr/cm ³	2.165	2.160	2.155
Carico di rottura – <i>Tensile strength</i>	ASTM D 4894	MPa	32	28	22
Allungamento a rottura – <i>Elongation at break</i>	ASTM D 4894	%	320	250	220
Rigidità Dielettrica – <i>Dielectric Strength</i>	ASTM D 149	Kv/mm	38	34	30
Durezza – <i>Hardness</i>	ASTM D 2240	Shore D	57	55	54

I dati riportati sono suscettibili di variazioni che GAPI riterrà di apportare per migliorare le caratteristiche del prodotto. Le informazioni fornite sono indicative.

Since development and improvement of compounds is a continuing process, GAPI reserves the right to modify their characteristics.

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Gapi S.p.A.
via Molinaretti, 2
24060 Castelli Calepio (BG)
Italy





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NSF International

RECOGNIZES

GAPI S.p.A

Italy

AS COMPLYING WITH NSF/ANSI 61 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



This certificate is the property of NSF International and must be returned upon request. For the most current and complete information, please consult NSF's website (www.nsf.org).

June 2, 2010
Certificate# 3F080 - 62

David Purkiss, General Manager
Water Distribution Systems

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LABORATORIO PER LA CERTIFICAZIONE E RICERCA
SUI SISTEMI ELASTOMERICI
con il patrocinio del C.N.R.



Messrs.

LANZA NUOVA S.p.A.

Via Tolari, 12

24060 GANDOSSO (BG)

Date 28th October, 2005
RP n° 570/B/bis
Ref. Fax dated 22.12.2004

Received 11.10.2005

Start tests 18.10.2005

End tests 27.10.2005

Page 1 of 1

R A P P O R T O D I P R O V A

Subject: DETERMINATION OF THE TOTAL EXTRACTIVES IN SIMULATORS OF FOODS,
ACCORDING TO "FDA CFR 21 - PARTS 170 to 199 - ITEM 177.1550
PERFLUOROCARBON RESINS"

SEMIFINISHED AND FINISHED ITEMS SUPPLIED BY GAPI S.r.l.
FROM VIRGIN GRANULAR PTFE
(POLYTETRAFLUOROETHYLENE)

Test methods Requirements

Total extractives in simulators of foods after 2 hours
at reflux temperature

FDA-CFR 21
Parts 170 / 199
Item 177.1550

• Distilled water	mg/in ²	0,09	max 0,2
• n.heptane	mg/in ²	0,08	max 0,2
• 50% (v/v) ethanol	mg/in ²	0,07	max 0,2
• ethyl acetate	mg/in ²	0,08	max 0,2

REMARK: The total extractives meet the requirements of "FDA CFR 21 - Parts 170 to 199 - Item 177.1550"

I risultati ottenuti in riferimento esclusivamente al campione presente.

Il presente rapporto di prova non può essere riprodotto parzialmente né integralmente senza l'autorizzazione del Laboratorio.

E. Badamer, *Operator*

Badamer E. line

F. Casa, *Director*

F. Casa

20098 San Giuliano Milanese - Via privata Cadore 13 - Tel. (02) 98.80.443 - Fax (02) 98.80.975 - P.IVA e C.F. 08984500158

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CARSO - LABORATOIRE SANTÉ ENVIRONNEMENT HYGIÈNE DE LYON

Laboratoire Agréé pour les analyses d'eaux par le Ministère de la Santé

CERTIFICAT DE CONFORMITE AUX LISTES POSITIVES DE REFERENCE

Conformément à l'arrêté du 29 mai 1997 modifié et aux circulaires du Ministère de la santé
DGS/VS4 n° 99/217 du 12 avril 1999 et DGS/VS4 n° 2000/232 du 27 avril 2000
et à l'avis paru au Journal Officiel du 24 Février 2012 (texte n°119)

Coordonnées du demandeur : GAPI S.P.A. Via Molinaretti, 2 24060 CASTELLI CALEPIO (BG) Italie	Nom(s) commercial(aux) du produit fini : PTFE FE 1000 (à base des matériaux Gujarat ou Dyncon)
--	--

Type de produit fini :		
<input type="checkbox"/> lubrifiant	<input checked="" type="checkbox"/> joint de diamètre inférieur à 63mm	<input type="checkbox"/> autre :
<input type="checkbox"/> graisse	<input type="checkbox"/> colle	
<input type="checkbox"/> ajout ou adjuvant organique pour ciment	<input type="checkbox"/> revêtement à base de ciment	
Commentaires : Renouvellement du certificat 07 CLP LY 005		
N° de dossier attribué par le laboratoire habilité : 12 CLP LY 015		

Formulation chimique :
La formulation chimique vérifiée par le laboratoire est conforme aux listes positives de référence. Ce certificat est établi sous réserve de la non-modification de la composition du produit et des préparations commerciales qui le constituent. Il peut par ailleurs être remis en cause par l'évolution des listes positives.

Remarque :
Ce certificat couvre toutes les sources d'approvisionnement pour les préparations commerciales qui peuvent être utilisées alternativement.

Certificat de CLP délivré par :	Christelle AUTUGELLE Responsable Laboratoire MCDE CARSO - L.S.E.H.L.	Signature :
A la date du : 24 Avril 2012		
Date d'expiration du certificat de CLP : 06 Mars 2017		

F_MC130-B 11.04.2012 CAU

SAS au capital de 2 783 622 Euros - RCS Lyon B 410 545 113 - SIRET 410 545 113 00018 - APE 1421 B - N° TVA : FR 92 410 545 510
Siège Social : 321, avenue Jean Jaurès - F - 69702 LYON (cedex 07) - Tél. : (33) 04 72 78 16 16 - Fax : (33) 04 78 72 12 11

1/1

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Hygiene-Institut
des Ruhrgebiets

Institut für Umwelthygiene und Umweltmedizin
Direktor: Prof. Dr. rer. nat. L. Dittmann



Hygiene-Institut des Ruhrgebiets, Postfach 70 10 10, 44613 Gelsenkirchen

GAPI S.p.A.
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24060 CASTELLI CALEPIO
ITALY

Postfach 70 10 10
44613 Gelsenkirchen
Phone: +49 201 5042 230
Fax: +49 201 5042 222
E-Mail: c.schell@hyg.de
Internet: www.hyg.de
Reference: W-192373e-10-SI
Reference: W-192373e-10-SI
Responsible: Mrs. Dr. Ch. Schell
Gelsenkirchen, 07.03.2011

TEST CERTIFICATE

(Transcription and Prolongation of test certificate W-192373e-10-SI)

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

Client: GAPI S.p.A.
Via Molinarotti, 2
24060 CASTELLI CALEPIO
ITALY

Test material: PTFE FE1000

Test method: Material test

According to test report W-136547-06-SI of 13.02.2006, the afore mentioned material PTFE FE1000 is conform to the requirements for the use in the area of drinking water systems pursuant to DVGW Technical Standard W 270. Details to test run and test results are itemized in the test report.

This test certificate shall become valid upon date of issue and shall expire on 13.02.2016 if conditions and requirements remain unaltered.

The Director of the Institute
on behalf

Dr. Ch. Schell

Department of Water Hygiene and Environmental Microbiology
The test results and suggestions are exclusively to be assessed test specimens and the testing regulations.
The validity of the test results applies in case of modifications in the composition of the material in the processing conditions.
The present document may only be published and reproduced in original and unaltered form.
This document is a DVGW certificate.



Träger des Systems: Hygiene-Institut des Ruhrgebiets, Postfach 70 10 10, 44613 Gelsenkirchen

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Our Ref: HL/M120283
Test Report: MAT/LAB 472E

4th September 2012

Gapi Spa.
Via Molinaretti,
2-24060 Castelli Calepio (BG),
Italy

WRAS
Water Regulations Advisory Scheme

WATER REGULATIONS ADVISORY SCHEME (WRAS) MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS 6920-1:2000 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYTETRAFLUOROETHYLENE (PTFE)

5295

PTFE FE 1000. White coloured PTFE material manufactured by extruding and skiving. For use with water up to 85°C.

APPROVAL NUMBER: 1208510
APPROVAL HOLDER: GAPI SPA.

The Scheme reserves the right to review approval. This approval is valid between August 2012 and August 2017.

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

Jason Farnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

Water Regulations Advisory Scheme Ltd.
38 Rens Close, Preston Industrial Estate,
Chesham, Bucks HP11 3JZ, UK
Tel: 01494 240434 Fax: 01494 236289
E-mail: info@wras.co.uk Website: www.wras.co.uk

WRAS is a registered company with the Companies Commission for England (No. 02068018)
Registered Office: 100, Victoria Road, Woking, Surrey GU24 0NF

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Hygiene-Institut
des Ruhrgebiets

Institut für Umwelthygiene und Umweltmedizin
Direktor: Prof. Dr. rer. nat. L. Quenemann

Hygiene-Institut, Postfach 10 17 00, 45679 Solingen, Germany

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45679 Solingen

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Extension +49 (0) 209 9242 351
Telefax +49 (0) 209 9242 212
E-Mail a.barnowski@hyg.de
Internet www.hyg.de

Reference No. K 201858-11-Bs
Contact person Annette Barnowski-Engl

Gefährdungen: 11.04.2011

TEST CERTIFICATE according to the KTW-Guideline

Product: PTFE FE 1000
Test specimen: Seals made of Fluon (AGC) and Asgafion (Solvay)
Ø: 10 mm Ø: 4,5 mm thickness 2 mm

The test specimen meets the requirements according to the test report dated 11.04.2011 Ref.-No.: K-201858-11-Bs for the following applications and temperatures:

Applications:	cold water (22°C)	warm water (60°C)	hot water (85°C)
Pipes with DN < 80 mm (domestic distribution)	---	---	---
Pipes of diameter 80 mm ≤ DN < 300 mm (supply pipes)	---	---	---
Pipes of diameter DN ≥ 300 mm (main pipes)	---	---	---
Fittings for pipes with DN < 80 mm	---	---	---
Fittings for pipes with 80 mm ≤ DN < 300 mm	---	---	---
Fittings for pipes with DN ≥ 300 mm	---	---	---
Sealings for pipes with DN < 80 mm	passed	---	passed
Sealings for pipes with 80 mm ≤ DN < 300 mm	passed	---	passed
Sealings for pipes with DN ≥ 300 mm	passed	---	passed
Tanks in the domestic installations including repair systems	---	---	---
Tanks other than in domestic installations including repair systems	---	---	---

as far as technically suited

If pipes, sealings or fittings and ancillaries do not differ in their material composition and process of manufacture, testing of the smallest diameter of the product range is sufficient.

This test certificate is valid beginning with the date of issue and is ending by 11.04.2015 as far as there are no changes in the formula. After this time it can be extended for further 5 years if demanded.

The Director of the Hygiene-Institute
on behalf of

Dr. rer. nat. Andreas Koch
Head of the Dept. for water
hygienic material testing

The assessment was based on the assumption that the used starting substances and monomers used to manufacture the product may completely known and no other substances are present in the product. The results of this document express in case of monitoring in the performance of the product in the processing conditions. The results and evaluations refer to the group of test items. This document may not be submitted without the written permission only complete and unchanged or duplicated.

ISO 9001 DAKKS

Deutsche
Akademie für
Zertifizierung
DPA-13084-02-00

Träger des Instituts: Verein zur Bewahrung der Volkskrankheiten im Ruhrgebiet e.V., Solingen, Vereinsregister: VR 938 Amtsgericht Solingen
BS-Id: 01125072356, Vorstand: Hans-Joachim Reber (Vorsitz), Prof. Dr. Jürgen Kietzschow, Dr. Emanuel Grün, Volker Vahmann, Prof. Dr. Lottie Goussens

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GAPI S.p.A.
Via Molinaretti, 2
Castelli Calepio (BG) - Italy

Attention Mr. Ryan Shinabery
Your Reference 011040
Report Number ENB012354P-1
Author Kimberly Hoffman
Date February 17, 2011

Subject Evaluation of FE1000 Virgin PTFE per 3-A Sanitary Standard 20-27

Dear Mr. Shinabery:

Forty molded two inch diameter disks of polytetrafluoroethylene (PTFE), with a surface area of $7.00 \pm 0.10 \text{ in}^2$ as required by the 20-27 procedure, labeled FE1000 Virgin PTFE, were submitted for testing in accordance with 3-A Sanitary Standard Procedure No. 20-27 (latest revision). The 3-A Sanitary Testing Procedure subjects the specimens to accelerated use-simulating tests to determine the cleanability for use in dairy equipment.

The results from the cleanability response testing, in which specimens were subjected to a series of cleaning solutions, are indicated in Table 1. The results show that the samples had either no appreciable weight gains, or gains that were less than the maximum allowable limit. The maximum allowable limit for fluorocarbons including PTFE is 0.05%.

The results for the product treatment, where the samples were divided into two groups, are detailed in Table 2. The M-series set of specimens was placed in cream at room temperature for seven days, which resulted in either no appreciable weight gains, or gains that were less than the maximum allowable limit of 0.05%. The L-series of specimens was placed in a lactic acid solution at 155 °F for seven days. These specimens had either no appreciable weight gains, or weight gains less than the maximum allowable limit of 0.05%.

The results from the cleanability comparison testing, in which the surfaces appear better than the surface of polished 316 stainless steel, are presented in Table 3.

The results indicated that the PTFE samples, labeled FE1000 Virgin PTFE, met the requirements as specified in 3-A Sanitary Standard Procedure No. 20-27. The scope of this testing does not include verification of Section H5 of the Standard, regarding compliance with FDA regulations and/or FC&C Act requirements.

EAR-CONTROLLED DATA

Report No. ENB012354P-1

February 17, 2012

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