

To

IVG COLBACHINI S.p.A.

Via Fossona, 77

35030 CERVARESE S. CROCE (PD)

Date, 2<sup>nd</sup> September, 2011  
TR n° **457-A<sub>bis</sub>/2011**  
Ref. Your E-Mail dated 15.07.2011

Received 15.07.2011 Start tests 22.08.2011 End tests 02.09.2011 Page 1 of 2

## T E S T R E P O R T

**Subject:** MIGRATION TESTS IN THE SIMULATORS OF FOODS ON A SAMPLING OF VULCANIZED SHEETS IN RUBBER COMPOUND, ACCORDING TO BfR – XXI RECCOMANDATION – CATEGORY 2

		<u>On the rubber compound</u> <u>"IVG-113700"</u>	<u>Requirements</u>
• Content of zinc	%	1,87	≤ 3
• Content of lead	%	0,001	≤ 0,003
• Content of aliphatic and cycloaliphatic amines	mg/dm <sup>2</sup>	Not detectable (<0,02)	≤ 5

**Migrations after contact of the rubber sheets with the Simulators for 24 hours at 40°C (Category 2)**

**Simulator: Distilled water**

• Total migration	mg/dm <sup>2</sup>	2,17	≤ 20
• Primary arylamines	µg/l	Not detectable	≤ 20
• Secondary N-alkyl arylamines	mg/l	0,03	≤ 1
• Formaldehyde	µg/ml	Not detectable	≤ 3
• N-nitrosamines	µg/dm <sup>2</sup>	< 0,4	≤ 1

**Simulator: Acetic acid 3% (m/v) in water**

• Total migration	mg/dm <sup>2</sup>	29,34	≤ 100
• Organic part	mg/dm <sup>2</sup>	9,06	≤ 20
• Primary arylamines	µg/l	Not detectable	≤ 20
• Secondary N-alkyl arylamines	mg/l	< 0,03	≤ 1
• N-nitrosamines	µg/dm <sup>2</sup>	< 0,4	≤ 1



Date, 2<sup>nd</sup> September, 2011 TR n° 457-A<sub>bis</sub>/2011

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## T E S T R E P O R T

### Requirements

**Compound: IVG-113700**

**Migrations after contact of the rubber sheets with the  
Simulators for 24 hours at 40°C  
(Category 2)**

**Simulator: Ethanol 10% (v/v) in water**

• Total migration	mg/dm <sup>2</sup>	1,97	≤ 20
• Primary arylamines	µg/l	Not detectable	≤ 20
• Secondary N-alkyl arylamines	mg/l	< 0,03	≤ 1
• N-nitrosamines	µg/dm <sup>2</sup>	< 0,4	≤ 1

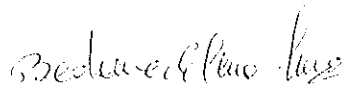
**NOTE:** The food simulators at the end of the contact are colourless, odourless and tasteless.

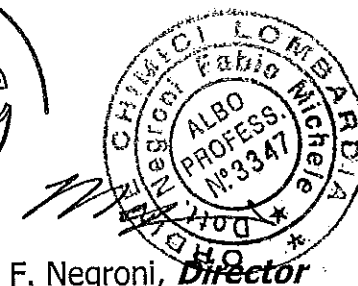
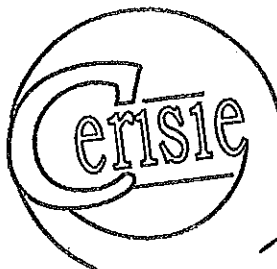
**REMARK:** The test results obtained from the migration tests carried out on the sheets of rubber compound marked "**IVG-113700**" **are compliant** with the requirements of the Recommendation XXI **Category 2** of BfR for the use in contact with foods.

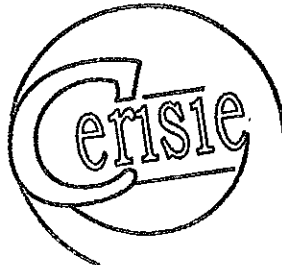
The sampling has been carried out by the Customer.

The contained results refer only to the tested sample.

This report cannot be partially reproduced without the laboratory approval.

  
E. Badomer, **Operator**





To

IVG COLBACHINI S.p.A.

Via Fossona, 77

35030 CERVARESE S. CROCE (PD)

Date, 13<sup>th</sup> October, 2011

TR n° 457-B<sub>bis</sub>/2011

Ref. Your E-Mail dated 15.07.2011

Received 15.07.2011

Start tests 15.09.2011

End tests 30.09.2011 Page 1 of 1

## T E S T R E P O R T

**Subject:** SUITABILITY TO BE USE IN CONTACT WITH FOODS, ACCORDING TO FDA, OF A RUBBER COMPOUND, MARKED "IVG-113700", SUPPLIED AS VULCANIZED RUBBER SHEETS 2 mm thick

**RUBBER COMPOUND**  
**(Sheets 200x200x2 mm)**

**IVG-113700**

Test methods

Requirements

**AQUEOUS FOODS**

FDA-Title 21  
Parts 170 to 199  
Item 177.2600  
(e)

Distilled water at reflux temperature

Total extractable matter during the first 7 hours of extraction	mg/in <sup>2</sup>	1,20	max 20
Total extractable matter during the succeeding 2 hours of extraction	mg/in <sup>2</sup>	0,87	max 1

**FATTY FOODS**

FDA-Title 21  
Parts 170 to 199  
Item 177.2600  
(f)

n-Hexane at reflux temperature

Total extractable matter during the first 7 hours of extraction	mg/in <sup>2</sup>	21,62	max 175
Total extractable matter during the succeeding 2 hours of extraction	mg/in <sup>2</sup>	1,93	max 4

**REMARK:** On the basis of the test results and on the basis of the recipe provided by the Customer, **we certifies** that the rubber compound marked "**IVG-113700**" **is in compliance** with the Requirements of the FDA – CFR 21 – Parts 170 to 199 – Item 177.2600 Paragraph (e) of the contact with aqueous foods and (f) of the contact with fatty foods.

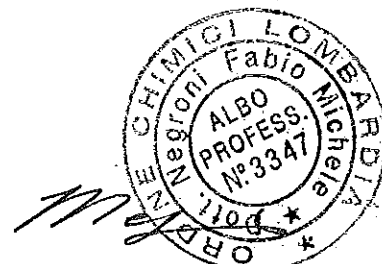
The sampling has been carried out by the Customer.

The contained results refer only to the tested sample.

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*E. Badomer*

E. Badomer, **Operator**



F. Negroni, **Director**



**Conformity Declaration** (in accordance to ISO/IEC 17050-1)

N°: **62/2014**                      GMS Velkoobchod s.r.o.

Issued by:                              **IVG COLBACHINI spa**

Address:                                      via Fossona, 132 – 35030 Cervarese S. Croce (PADOVA)

Declaration Object:                      **Hoses Type:**  
**FOOD SCOTLAND**

Premium delivery hose for non fatty foods

Specifications: FDA tit.21 item 177.2600 for aqueous foods. BfR XXI cat.2 for foods. D.M. 21/03/73 for aqueous foods and alcohols to 96°. CE 1935/04 and CE 2023/06

The above hose is in accordance to the requirements as per the following document:

<i>Documents n°</i>	<i>Title</i>	<i>Edition/Issue Date</i>
IVG Online Catalogue	Food family/Scotland	19/02/2014

**Additional Information:**

Inner tube certified by CERISIE according to the test report:

TR n° 319-B/2011 (FDA tit.21 item 177.2600 for aqueous foods);

TR n° 456/2011 (BfR XXI cat.2 for foods);

TR n° 319-D/2011 and 319-E/2011 (D.M. 21/03/73 for aqueous foods and alcohols until 96%);

TR n° 176/2013 (rubber is PHTHALATES free, 12 different phthalates tested and exceeds the REACH Regulation update December 2012).

Cervarese S. Croce, **20/02/2014**

*(Place and Issue date)*

Francesco Fiorello – Product Manager

*(Name and Position)*

*(Signature or equivalent mark authorized by the issuing)*

