

To

IVG COLBACHINI S.p.A.

Via Fossona, 77

35030 CERVARESE S. CROCE (PD)

Date, 2nd September, 2011
TR n° **457-A_{bis}/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 ²	Not detectable (<0,02)	≤ 5

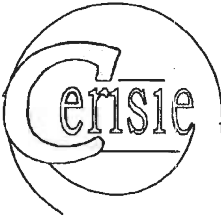
Migrations after contact of the rubber sheets with the Simulators for 24 hours at 40°C (Category 2)

Simulator: Distilled water

• Total migration	mg/dm ²	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 ²	< 0,4	≤ 1

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

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



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

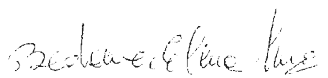
NOTE: The food simulators at the end of the contact are colourless, odourless and tasteless.

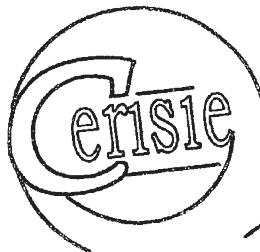
REMARK: The test results obtained from the migration tests carried out on the sheets of rubber compound marked "**IVG-113700**" **are compliant** with the requirements of the Recommendation XXI **Category 2** of BfR for the use in contact with foods.

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, 13th October, 2011

TR n° **457-B_{bis}/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 ²	1,20	max 20
Total extractable matter during the succeeding 2 hours of extraction	mg/in ²	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 ²	21,62	max 175
Total extractable matter during the succeeding 2 hours of extraction	mg/in ²	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.

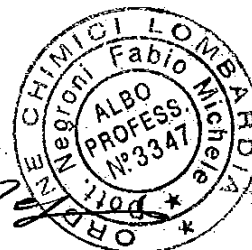
The sampling has been carried out by the Customer.

The contained results refer only to the tested sample.

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E. Badomer

E. Badomer, **Operator**



F. Negroni, **Director**



Cervarese S.Croce, 16.06.2009

To : GMS

To the kind attn.: Mr Premysl Janicek

Ref. : FOOD REGULATIONS – EN 1935/2004

Dear Sirs,

Regarding these Food European regulations, IVG confirms that our products, designed to work for food applications and in food ambients, type : **Food Merlot, Food Parry, Food Scotland, Food Scotland II, Truck Foodflex, Food Vinoflex, Truck Don BN, Abr Volga BN, Chem Supertop UHMWPE, Chem Supertop II UHMWPE, Chem Thunderflex.**

meet

- the regulations no. **1935/2004** of the European Parliament. This document is for IVG Colbachini and our products.
We would like also to underline that IVG has developed procedures for the monitoring of the traceability and labelling requirements of our products according the 1935/2004 normative since long time.
The inner tubes of our hoses are certified in accordance to international specific food standards prepared and issued by known specialized laboratories.


Ing. Francesco Fiorello
Product Manager
IVG Colbachini S.p.A.