

To

IVG COLBACHINI S.p.A.

Via Fossona, 77

35030 CERVARESE S. CROCE (PD)

Date, 14th November, 2011
TR n° **456_{bis}/2011**
Ref. Your Confirmation dated 18.07.2011

Received 15.07.2011 Start tests 20.07.2011 End tests 11.11.2011 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 MARKED "IVG-113891", ACCORDING TO BfR – XXI RECCOMANDATION – CATEGORY 2

		<u>On the rubber compound</u>		<u>Requirements</u>
		<u>"IVG-113891"</u>		
• Content of zinc	%	2,08		≤ 3
• Content of lead	%	< 0,001		≤ 0,003
• Content of aliphatic and cycloaliphatic amines	mg/dm ²	Not detectable (<0,02)		≤ 5
• Acrylonitrile monomer	mg/kg	Not detectable (< 0,1)		≤ 1

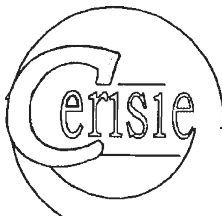
Migrations after contact of the rubber sheets with the Simulators for 24 hours at 40°C (Category 2)

Simulator: Distilled water

• Total migration	mg/dm ²	6,31	≤ 20
• Primary arylamines	µg/l	< 5	≤ 20
• Secondary N-alkyl arylamines	mg/l	0,011	≤ 1
• Formaldehyde	µg/ml	Not detectable	≤ 3
• N-nitrosamines	µg/dm ²	0,86	≤ 1

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

• Total migration	mg/dm ²	96,97	≤ 100
• Organic part	mg/dm ²	15,38	≤ 20
• Primary arylamines	µg/l	< 5	≤ 20
• Secondary N-alkyl arylamines	mg/l	0,103	≤ 1
• N-nitrosamines	µg/dm ²	0,99	≤ 1



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T E S T R E P O R T

Requirements

Compound: IVG-113891

**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	10,58	≤ 20
• Primary arylamines	µg/l	< 5	≤ 20
• Secondary N-alkyl arylamines	mg/l	0,27	≤ 1
• N-nitrosamines	µg/dm ²	0,82	≤ 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-113891**" **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.

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E. Badomer

E. Badomer, **Operator**



F. Negroni
F. Negroni, **Director**



Date, 14th July, 2011
TR n° **319-B_{bis}/2011**
Ref. E-Mail dated 06.05.2011

To
IVG COLBACHINI S.p.A.
Via Fossona, 77
35030 CERVARESE S. CROCE (PD)

Received 20.05.2011 Start tests 25.05.2011 End tests 29.06.2011 Page 1 of 1

T E S T R E P O R T

Subject: SUITABILITY TO BE USE IN CONTACT WITH AQUEOUS FOODS, ACCORDING TO FDA 177.2600, ON A SAMPLE OF VULCANIZED RUBBER COMPOUND MARKED "IVG-113891"

RUBBER COMPOUND **IVG-113891** Test methods Requirements
(Sheets 200x200x2 mm)

AQUEOUS FOODS

Distilled water at reflux temperature

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

Total extractives during the first 7 hours of extraction	mg/in ²	0,79	max 20
Total extractives during the succeeding 2 hours of extraction	mg/in ²	0,48	max 1

STATEMENT: 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-113891**" **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.

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
F. Negroni, **Director**

