



Messrs.
ANVER Corporation
36 Parmenter Rd
Hudson, MA 01749

Date, 26th February, 2007
RP n° 046/C/bis
Ref. Fax n°003/07 dated 10.01.2007

Received 22.01.2007 Start tests 25.01.2007 End tests 21.02.2007 Page 1 of 1

TEST REPORT

Subject: DETERMINATION OF THE TOTAL EXTRACTIVES IN ACQUEOUS AND FATTY FOODS, ACCORDING TO FDA, OF A RUBBER COMPOUND SUPPLIED AS VULCANIZED SHEET 2 mm thick

COMPOUND	VMQ "R4001/30 TRASP."	Test methods	Requirements
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ACQUEOUS FOODS

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

Distilled water at reflux temperature

Total extractives during the first 7 hours of extraction	mg/in ²	0,76	max 20
Total extractives during the succeeding 2 hours of extraction	mg/in ²	0,28	max 1

FATTY FOODS

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

n-Hexane at reflux temperature

Total extractives during the first 7 hours of extraction	mg/in ²	19,9	max 175
Total extractives during the succeeding 2 hours of extraction	mg/in ²	1,29	max 4

STATEMENT: The total extractives of the rubber compound marked "VMQ "R4001/30 TRASP."" **meet** the FDA Specifications for repeated use in contact with aqueous and fatty foods. (CFR 21 - Parts 170 to 199 - Item 177.2600 (e) and (f)).

The contained results refer only to the tested sample

This report cannot be partially reproduced without the laboratory approval

F. Bolongaro, **Operator**

F. Casa, **Director**



To

ANVER Corporation

36 Parmenter Rd

Hudson, MA 01749

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T E S T R E P O R T

Subject: TEST ON A VULCANIZED RUBBER COMPOUND MARKED "VMQ "PT LACE 50 TRASP"" ACCORDING TO 3-A SANITARY STANDARDS OF A MULTIPLE-USE RUBBER AND RUBBER-LIKE MATERIALS USED AS PRODUCT CONTACT SURFACES IN DAIRY EQUIPMENT, NUMBER 18-03

COMPOUND		VMQ "PT LACE 50 TRASP"	Tests Methods	Requirements Class I	Table
<u>Original physical properties</u>					
• Tensile strength	psi	1305	ASTM D 412/02	min 1200	C 3.1
• Elongation	%	700	ASTM D 412/02	min 100	
• Hardness	Shore A3 points	60,0	ASTM D 2240/02	---	
<u>Change in properties after air aging for 166 hours at 212°C</u>					
• Change in Hardness	Shore A3 points	+1,0	ASTM D 573/99 ASTM D 2240/02	max ±10	C 2.2.3
<u>Change in properties after immersion in butter oil for 22 hours at 158°F</u>					
• Change in Hardness	Shore A3 points	-4,0	ASTM D 471/98 ASTM D 2240/02	max ±5	C 2.2.1
• Change in Mass	%	+1,54		max ±5	
• Change in Volume	%	+1,65		max ±5	
<u>Change in properties after immersion in distilled water for 22 hours at 158°F</u>					
• Change in Hardness	Shore A3 points	-0,5	ASTM D 471/98 ASTM D 2240/02	max ±5	C 2.2.2
• Change in Mass	%	+0,19		max ±5	
• Change in Volume	%	+0,14		max ±5	



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T E S T R E P O R T

COMPOUND VMQ Tests Methods Requirements Table
"PT LACE
50 TRASP" Class I

Change in properties after immersion in nitric acid for 22 hours at 180°F

ASTM D 471/98

D 4.6

- | | | | | |
|----------------------|-----------------|-------|----------------|--------|
| • Change in Hardness | Shore A3 points | + 1,0 | ASTM D 2240/02 | max ±5 |
| • Change in Mass | % | -0,19 | | max ±5 |
| • Change in Volume | % | -0,22 | | max ±5 |
| • Visual Change | Observation | None | | None |

Change in properties after immersion in alkaline cleaner for 22 hours at 180°F

ASTM D 471/98

D 4.8

- | | | | | |
|----------------------|-----------------|-------|----------------|--------|
| • Change in Hardness | Shore A3 points | -3,0 | ASTM D 2240/02 | max ±5 |
| • Change in Mass | % | -0,76 | | max ±5 |
| • Change in Volume | % | -1,29 | | max ±5 |
| • Visual Change | Observation | None | | None |

Change in properties after immersion in chlorine sanitizer for 22 hours at 70°F

ASTM D 471/98

D 4.9

- | | | | | |
|----------------------|-----------------|-------|----------------|--------|
| • Change in Hardness | Shore A3 points | +0,5 | ASTM D 2240/02 | max ±5 |
| • Change in Mass | % | +0,45 | | max ±5 |
| • Change in Volume | % | +0,62 | | max ±5 |
| • Visual Change | Observation | None | | None |

STATEMENT: THE RESULTS OF THE TESTS ON VMQ "PT LACE 50 TRASP" RUBBER COMPOUND ARE IN COMPLIANCE WITH THE REQUIREMENT OF THE 3-A SANITARY STANDARDS NUMBER 18-03-CLASS I.

The contained results refer only to the tested sample

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C. Montà, *Operator*




F. Casa, *Director*



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TEST REPORT

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COMPOUND		<u>VMQ</u> <u>"PT LACE 50 TRASP"</u>	Test methods	Requirements
<u>ACQUEOUS FOODS</u>			FDA-Title 21 Parts 170 to 199 Item 177.2600 (e)	
Distilled water at reflux temperature				
Total extractives during the first 7 hours of extraction	mg/in ²	0,50		max 20
Total extractives during the succeeding 2 hours of extraction	mg/in ²	0,23		max 1
<u>FATTY FOODS</u>			FDA-Title 21 Parts 170 to 199 Item 177.2600 (f)	
<u>n-Hexane at reflux temperature</u>				
Total extractives during the first 7 hours of extraction	mg/in ²	22,5		max 175
Total extractives during the succeeding 2 hours of extraction	mg/in ²	1,22		max 4

STATEMENT: The total extractives of the rubber compound marked "VMQ "PT LACE 50 TRASP"" **meet** the FDA Specifications for repeated use in contact with aqueous and fatty foods. (CFR 21 - Parts 170 to 199 - Item 177.2600 (e) and (f)).

The contained results refer only to the tested sample

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