



# Test Report

No.: T31720211427SC

Date: APR 22, 2017

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THERMOLON KOREA CO., LTD  
11-16, NOKSANSANDAN 165-RO, 14BEON-GIL(SONGJEONG-DONG), GANGSEO-GU, BUSAN,  
46752, SOUTH KOREA

The following samples were submitted and identified on behalf of the client as:

COVERING THE FOLLOWING BRAND NAMES: THERMOLON™ NON-STICK; THERMOLON™ DIAMOND; THERMOLON™ DIAMOND PROFESSIONAL; THERMOLON™ DIAMOND REINFORCED; THERMOLON™ INFINITY; THERMOLON™ INFINITY PROFESSIONAL : IN BLACK

SGS Case No. : CA317202051639  
Manufacturer : THERMOLON KOREA CO., LTD  
Country of Origin : SOUTH KOREA  
Sample Receiving Date : MAR 28, 2017  
Test Performing Date : MAR 28 - APR 06, 2017

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
<b>1 German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.</b>	--
a) Sensorial examination odour and taste test	PASS
<b>2. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 &amp; 31.</b>	--
a) Visible Color Migration	PASS

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Result Summary :  
(con't)

Test Requested	Conclusion
<b>3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and BfR recommendation.</b>	--
a) Organic coating – Overall migration	PASS
b) Organic coating – Specific migration of Heavy Metals	PASS
c) Organic coating – Specific migration of Polycyclic Aromatic Hydrocarbons (PAHs)	PASS
d) Organic coating – Specific migration of Lead and Cadmium	PASS
e) Non-stick coating – Specific migration of Chromium (VI)	PASS
f) Non-stick coating – Specific migration of Chromium (III)	PASS
g) Non-stick coating – Specific migration of Perfluorooctanoic acid (PFOA)	PASS
h) Non-stick coating – Specific migration of Perfluorooctane Sulfonates (PFOS)	PASS
i) Non-stick coating – Specific migration of Fluorine	PASS
<b>4. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.</b>	--
a) Metal / Metallic coating – Extractable heavy metals	PASS
<b>5. US FDA 21 CFR 175.300 (Resinous and Polymeric Coatings) – Determination of Amount of Extractives</b>	PASS
<b>6. European Regulation (EC) No. 850/2004 and its amendments – Perfluorooctane sulfonates (PFOS) content</b>	PASS

Signed for and on behalf of  
SGS Hong Kong Ltd.



Che Wai Leuk, Jerry  
Technical Manager

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Test Results :

**1. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.**

a) Sensory examination – odour and taste test

Method : With reference to DIN10955:2004-06.

Test Condition : Deionised Water at 100°C for 2 hours

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0	2.5
Sensorial examination taste (Intensity scale)	1.0	2.5
<b>Comment</b>	PASS	--

Sample Description :

1. Whole Sample (Pan – Black Style)

Note : Intensity scale :

- 0 – no perceptible deviation
- 1 – deviation just perceptible
- 2 – moderate deviation
- 3 – distinct deviation
- 4 – large deviation

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Test Results (Cont'd) :

### 2. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31.

#### a) Visible Color Migration

Method: With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

Simulant Used	Result	Requirement
	1	
Deionized Water	No color release observed	No color release
2% Acetic Acid (W/V) Aqueous Solution	No color release observed	No color release
10% Ethanol (V/V) Aqueous Solution	No color release observed	No color release
Coconut Oil	No color release observed	No color release
<b>Comment</b>	PASS	--

#### Sample Description :

1. Black Coated Metal (Pan)

### 3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and BfR recommendation.

#### a) Organic coating – Overall migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods (3<sup>rd</sup> migration);  
 EN 1186-9:2002 aqueous food simulants by article filling method;  
 EN 1186-14:2002 substitute test.

Simulant Used	Test Condition	Result	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
		(mg/dm <sup>2</sup> )		
		1		
3% Acetic Acid (W/V) Aqueous Solution	4 hours at 100 °C	ND	3.0	10
10% Ethanol (V/V) Aqueous Solution	4 hours at 100 °C	ND	3.0	10
Fatty food substitute				
95% Ethanol	6 hours at 60 °C	ND	3.0	10
Isooctane	4 hours at 60 °C	ND	3.0	10
<b>Comment</b>	--	PASS	--	--

#### Sample Description :

1. Black Coated Metal (Pan)

Note : 1. mg/dm<sup>2</sup> = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

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Test Results (Cont'd) :

## b) Organic coating – Specific migration of Heavy Metals

Method: Sample preparation in 3% acetic acid (w/v) in aqueous solution at 100°C for 2 hours with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) (3<sup>rd</sup> migration).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.03	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Zinc	ND	0.5	25
<b>Comment</b>	PASS	--	--

**Sample Description :**

1. Black Coated Metal (Pan)

- Note :
1. mg/kg = milligram per kilogram of foodstuff in contact with
  2. °C = degree Celsius
  3. ND = Not Detected

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Test Results (Cont'd) :

## c) Organic coating – Specific migration of Polycyclic Aromatic Hydrocarbons (PAHs)

 Method : Sample preparation in rectified olive oil at 175 °C for 2 hours with reference to EN 13130-21:2004; followed by analysis using Gas Chromatography – Mass Spectrometry (GC-MS) (1<sup>st</sup> migration).

Test Item	CAS number	Result (mg/kg)	Reporting Limit (mg/kg)	Requirement
		1		
Benzo[a]pyrene	50-32-8	ND	0.01	Absent
Benzo[e]pyrene	192-97-2	ND	0.01	Absent
Benzo[a]anthracene	56-55-3	ND	0.01	Absent
Dibenzo[a,h]anthracene	53-70-3	ND	0.01	Absent
Benzo[b]fluoranthene	205-99-2	ND	0.01	Absent
Benzo[j]fluoranthene	205-82-3	ND	0.01	Absent
Benzo[k]fluoranthene	207-08-9	ND	0.01	Absent
Chrysene	218-01-9	ND	0.01	Absent
Benzo[g,h,i]perylene	191-24-2	ND	0.01	Absent
Ideno[1,2,3-cd]pyrene	193-39-5	ND	0.01	Absent
Acenaphthylene	208-96-8	ND	0.01	Absent
Acenaphthene	83-32-9	ND	0.01	Absent
Anthracene	120-12-7	ND	0.01	Absent
Fluorene	86-73-7	ND	0.01	Absent
Fluoranthene	206-44-0	ND	0.01	Absent
Phenanthrene	85-01-8	ND	0.01	Absent
Pyrene	129-00-0	ND	0.01	Absent
Naphthalene	91-20-3	ND	0.01	Absent
<b>Comment</b>		PASS	--	--

**Sample Description:**

1. Black Coated Metal (Pan)

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with  
 2. ND = Not Detected  
 3. Requirement is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

**Remark :**

1. Compliance is based on the 1<sup>st</sup> migration result only as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V.

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Test Results (Cont'd) :

d) Organic coating – Specific migration of Lead and Cadmium

Method : Sample preparation in 3% acetic acid (w/v) in aqueous solution at 100°C for 2 hours with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) (1<sup>st</sup> migration).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Requirement
	1		
Specific Migration of Lead	ND	0.01	Absent
Specific Migration of Cadmium	ND	0.01	Absent
<b>Comment – Lead and Cadmium</b>	PASS	--	--

Sample Description:

1. Black Coated Metal (Pan)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with  
2. ND = Not Detected

Remark :

1. Compliance is based on the 1<sup>st</sup> migration result only as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V.

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Test Results (Cont'd) :

e) Non-stick coating – Specific migration of Chromium (VI)

Method : Sample preparation in 3% acetic acid (w/v) in aqueous solution at 95°C for 60 minutes, followed by analysis using UV-visible Spectrometry.

Test Item	Result (mg/L)	Reporting Limit (mg/L)	Requirement
	1		
Specific migration of Chromium (VI)	ND	0.02	Not detectable
<b>Comment</b>	PASS	--	--

Sample Description :

1. Black Coated Metal (Pan)

Note : 1. mg/L = milligram per litre  
 2. °C = degree Celsius  
 3. ND = Not Detected

f) Non-stick coating – Specific migration of Chromium (III)

Method : Sample preparation in 3% acetic acid (w/v) in aqueous solution at 95°C for 60 minutes, followed by analysis using UV-visible Spectrometry and Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (mg)	Reporting Limit (mg)	Permissible Limit (mg)
	1		
Specific migration of Chromium (III)	ND	0.02	0.02
<b>Comment</b>	PASS	--	--

Sample Description :

1. Black Coated Metal (Pan)

Note : 1. mg = milligram  
 2. °C = degree Celsius  
 3. ND = Not Detected

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Test Results (Cont'd) :

g) Non-stick coating – Specific migration of Perfluorooctanoic acid (PFOA)

Method : Sample Preparation with reference to EN13130-1:2002, followed by analysis using High-performance Liquid Chromatography-Mass Spectrophotometer (HPLC-MS) (3<sup>rd</sup> migration).

Simulant Used	Test Condition	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
		1		
3% Acetic Acid (W/V) Aqueous Solution	60 minutes at 95 °C	ND	0.002	0.005
<b>Comment</b>	--	PASS	--	--

### Sample Description :

1. Black Coated Metal (Pan)

Note : 1. mg/dm<sup>2</sup> = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

h) Non-stick coating – Specific migration of Perfluorooctane Sulfonates (PFOS)

Method : Sample preparation 3% acetic acid (w/v) in aqueous solution at 95 °C for 60 minutes with reference to EN 13130-1:2004; followed by analysis using High-performance Liquid Chromatography-Mass Spectrophotometer (HPLC-MS) (1<sup>st</sup> migration).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Specific migration of Perfluorooctane Sulfonates (PFOS) <sup>#</sup>	ND	0.01	0.01
<b>Comment</b>	PASS	--	--

### Sample Description :

1. Black Coated Metal (Pan)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. ND = Not Detected

3. <sup>#</sup> = Perfluorooctane Sulfonates (PFOS) are represented by sum of PFOS – Acid, PFOS – Metal Salt and PFOS – Amide.

### Remark :

1. Compliance is based on the 1<sup>st</sup> migration result only as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V.

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Test Results (Cont'd) :

i) Non-stick coating – Specific migration of Fluorine

Method : Sample preparation in 3% acetic acid (w/v) in aqueous solution at 95°C for 60 minutes, followed by analysis using IC method (3<sup>rd</sup> migration).

Test Item	Result (mg)	Reporting Limit (mg)	Permissible Limit (mg)
	1		
Specific migration of Fluorine	ND	0.05	0.05
<b>Comment</b>	PASS	--	--

### Sample Description :

1. Black Coated Metal (Pan)

- Note :
1. mg = milligram
  2. °C = degree Celsius
  3. ND = Not Detected

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Test Results (Cont'd) :

**4. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.**

a) Metal / Metallic coating – Extractable heavy metals

Method : Sample preparation in 0.5% citric acid (p/v) in aqueous solution at 100°C for 2 hours with reference to EN13130-1:2004 for selection of test method, followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS).

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	7 x SRL (mg/kg)	Specific Release Limit (SRL) (mg/kg)
	1				
	1 <sup>st</sup> + 2 <sup>nd</sup> Migration	3 <sup>rd</sup> Migration			
Silver	ND	ND	0.03	0.56	0.08
Aluminium	ND	ND	0.1	35	5
Cobalt	ND	ND	0.01	0.14	0.02
Chromium	ND	ND	0.1	1.75	0.25
Copper	ND	ND	0.1	28	4
Iron	ND	ND	0.1	280	40
Manganese	ND	ND	0.06	12.6	1.8
Molybdenum	ND	ND	0.02	0.84	0.12
Nickel	ND	ND	0.01	0.98	0.14
Tin	ND	ND	1	700	100
Vanadium	ND	ND	0.005	0.07	0.01
Zinc	ND	ND	1	35	5
Arsenic	ND	ND	0.001	0.014	0.002
Barium	ND	ND	0.1	8.4	1.2
Beryllium	ND	ND	0.005	0.07	0.01
Cadmium	ND	ND	0.001	0.035	0.005
Mercury	ND	ND	0.002	0.021	0.003
Lithium	ND	ND	0.02	0.336	0.048
Lead	ND	ND	0.005	0.07	0.01
Antimony	ND	ND	0.02	0.28	0.04
Thallium	ND	ND	0.0001	0.0007	0.0001
<b>Comment</b>	PASS		--	--	--

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Test Results (Cont'd) :

Sample Description :

1. Black Coated Metal (Pan)

Note : 1.mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. ND = Not Detected

4. According to Council of Europe Resolution CM/Res(2013)9, the result from 3<sup>rd</sup> migration shall comply with the Specific Release Limit (SRL) and the sum of 1<sup>st</sup> and 2<sup>nd</sup> migration shall not exceed seven times of SRL for repeated use articles

**5. US FDA 21 CFR 175.300 (Resinous and Polymeric Coatings) – Determination of Amount of Extractives**

Method : With reference to US FDA 21 CFR 175.300.

For repeated use :

Extractants	Test Condition	Result (mg/inch <sup>2</sup> )	Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )	Limit related to 0.005% of water capacity (mg/inch <sup>2</sup> )
		1			
Distilled Water	250°F for 2 hours	ND	0.1	18	0.89
8% Alcohol	150°F for 2 hours	ND	0.1	18	0.89
n-Heptane	150°F for 2 hours	ND	0.1	18	0.89
<b>Comment</b>	--	PASS	--	--	--

Sample Description :

1. Black Coated Metal (Pan)

Note : 1. mg/inch<sup>2</sup> = milligram per square inch

2. °F = degrees Fahrenheit

3. ND = Not Detected

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Test Results (Cont'd) :

**6. European Regulation (EC) No. 850/2004 and its amendments – Perfluorooctane sulfonates (PFOS) content**

Method : Solvent extraction followed by analysis using High-performance Liquid Chromatography-Mass Spectrophotometer (HPLC-MS).

Articles or part of articles:

Test Item	Result (%)	Reporting Limit (%)	Permissible Limit (%)
	1		
Perfluorooctane sulfonates (PFOS) <sup>#</sup>	ND	0.001	0.1
<b>Comment</b>	PASS	--	--

Sample Description :

1. Black Coated Metal (Pan)

- Note :
1. % = percentage by weight
  2. ND = Not Detected
  3. # = Perfluorooctane sulfonates (PFOS) are represented by sum of PFOS – Acid, PFOS – Metal Salt and PFOS – Amide.

\*\*\* End of Report \*\*\*

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