

优质生活,科技先行





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鵬孚隆科技 提供不粘涂层卓越解决方案 Http://www.pfluon.com

一、基本信息

1. 产品系列:

W8802

W8804

W8806

2. 产品体系:

三层水性氟树脂不粘涂料

3. 产品特性:

耐腐蚀性优异、耐摩擦性良好; 安全环保、使用寿命较长; 不粘性优异、易于清洁。

4. 适用领域:

适用于各种铝、合金制品的炊具及煎烤器具;适用于各类厨房电器及小家电产品。

I . Basic Information

i . Product Series:

W8802

W8804

W8806

ii. Product system:

Three-layer water-base fluororesin non-stick coating

iii. Typical properties:

Excellent anti-corrosion property, fine abrasion resistance; Safe and environment-friendly, long service life; Fine non-stick performance, easy to clean.

iv. Application field:

Apply to various cookwares and grill apparatus made of aluminum and alloy; Apply to kinds of kitchen and household appliances.





二、工艺要求

1. 基材前处理

首先进行表面除油,然后对表面打磨或喷砂处理(可采用 $80#-120#金刚砂,使基材粗糙度为Ra2.0\mu-3.0\mu$),最后清洗除尘。

2. 涂料预备

(1)涂料的分散

使用前必须将涂料充分地分散,可采用搅拌或滚桶机滚动的方法。

搅拌: 低速均匀搅拌(30r/min-50r/min)大约10min,切勿产生气泡。

滚桶机: 在滚桶机上以30r/min-50r/min的转速转动40min。

(2) 粘度的调节

根据涂料喷涂方法的不同可以适当进行粘度调节,粘度过高可以用适量纯净水稀释

(3)涂料的过滤

涂料使用前用(100-150)目的不锈钢或尼龙滤网过滤,除去杂质。

II. Application Process

i .Pre-treatment of substrate

First, degrease the surface, and then apply rubbing or sandblasting treatment to the surface with corundum ($80#\sim120#$) to make the surface roughness in the range of Ra2.0 μ ~3.0 μ . The last step is to clean and dedust.

ii. Preparation of coating

i) Dispersion

Fully disperse the coating by stirring or rolling on a ball grinder before operation. Stirring standard: Give a low-speed and uniform stirring (30r/min~50r/min) for 10 minutes, be sure there is no bubble.

Rolling standard: Roll the coating for 40 minutes at the speed of 30r/min~50r/min on the ball grinder.

ii) Viscosity adjustment

The viscosity can be adjusted according to different spraying methods, dilute the coating with moderate pure water if the viscosity is over high.

iii) Coating filtration

Filtrate the coating with stainless steel or nylon filter net (100mesh ~150mesh) before using to get rid of impurities.



3. 涂料喷涂

(1)喷涂方式

可采用压缩空气喷涂方式,普通喷枪(重力式、压力式、虹吸式)都可以使用。使用的喷嘴口径为Φ1.2mm-1.5mm,喷头压力1.5kgf/cm²-4.0kgf/cm²。喷枪和工件表面应根据喷涂环境和涂料物性保持在一定的距离范围。

(2)喷涂工艺

喷涂环境应相对干燥、通风良好、严禁烟火。

空压机使用前要进行除油、除水、并安装油水分离器。

喷涂前调整好喷枪的雾化和出油量,喷涂工件要保证清洁平整。

底油喷涂:将处理好的基材预热到35℃左右后,进行喷涂。

底涂膜厚: 15μm-18μm; 干燥温度: 120℃; 干燥时间: 10min-20 min。

中油喷涂:底油烘干冷却到常温,喷涂中油。

中涂膜厚: 10µm-15µm。

面油喷涂:中油喷涂完后直接喷面油。

面涂膜厚: 10µm-12µm; 干燥温度: 120℃-150℃; 干燥时间: 10min-15min。

干膜厚度: 35µm-45µm。

(3)涂膜固化

干燥箱(或隧道炉)炉温设置在120℃-150℃左右,工件喷涂完后放入保温10min-15min,然后缓慢升至380℃-400℃,保温5min-10min即可。

固化烧结时应根据基材的大小、材料的传热性能适当调整保温时间。

(4) 工件的冷却:可选择水冷、自然冷、风冷、

iii. Spraying of coating

i) Spraying method

Compressed air spraying is available. All general spray guns (pressure feed type, gravity feed type and siphon type) could be used. The caliber of spray nozzle is Φ 1.2mm-1.5mm, the spray head pressure is 1.5kgf/cm²-4.0kgf/cm². The spray gun should keep a certain distance from workpiece in accordance with the spraying environment and coating properties.

ii) Spraying Process

The spraying environment should be dry, well-ventilated, no smoking and fire.

Air compressor should be degreased, dewatered and equipped with decantor before using.

Adjust atomization and oil pump capacity of the spraying gun, make sure the workpiece is clean and level.

Basecoat spraying: Heat the substrate to about 35°C before spraying basecoat.

Basecoat film thickness: $15\mu m\sim 18\mu m$; drying temperature: $120^{\circ}C$; drying time: $10min\sim 20min$.

Midcoat spraying: Spray midcoat after drying and cooling down the basecoat to normal temperature.

Midcoat film thickness: 10µm~15µm.

Topcoat spraying: Spray the topcoat directly after spraying the midcoat.

Topcoat film thickness: 10μm~12μm; drying temperature: 120°C~150°C; drying time: 10min~20min.

Film thickness: 35µm-45µm

iii) Film curing

Set temperature within the drying oven (or tunnel drier) at 120°C~150°C. Keep the sprayed workpiece in for 10min~15min, then slowly increasing the temperature to 380°C~400°C and keep for another 5min~10min.

Adjust the holding time according to the size of substrate and heat-transfer ability of the material during curing or sintering process.

iv) Cool down the workpiece

Water cooling, natural cooling and air cooling are all available.



- 1. 涂料贮存场地应保持通风、干燥。防止日光直接照射,并应隔绝火源、远离热源。应在 10°C-30°C保存。每周在滚桶机上滚匀一次(转速设定为30rpm-50rpm,时间为15min-30min)。冬季时注意不能冻结。
- 2. 涂料保质期为6个月。

四、典型产品理化指标

	型号	底油 W8802-5001	中油 W8802-0004	面油 W8802-6004	测试方法	
	固含量,%	30±1	45±1	45±1	220°CX30min	
	密度,g/mL	1.3±0.1	1.3±0.1	1.4±0.1	比重杯	
	粘度,(25℃)CP	400-600	400-600	300-500	旋转粘度计	
	pH值	'	7-10		pHit	
	外观		黑色闪光		目视	
	光泽度	·47709	20-25		60°光泽计	
	膜厚,µm	,	35-45	0321	涂膜厚度仪	
	硬度		НВ	24 to	中华铅笔/常温	
	附着力		100/100		方格100/100/3M胶带	
3/2	基材		压铸铝		1	
	烧结温度		380°Cx10min	" OV KOO	/	
	耐磨性	\	4000	01/7°CO	BS 7069	
	耐盐水性		36h		BS 7069	



Ⅲ. Storage of Coating

- i . The storage place should be dry and well-ventilated. Avoid direct sun exposure, and keep away from the source of ignition and heat. The storage temperature should be between 10°C~30°C. Have a weekly shake on the ball grinder (30rpm~50rpm * 15min~30 min). Never make it freeze in winter.
- ii. The shelf life of the coating is 6 months.

IV. Typical Product Physico-chemical Index

Basecoat W8802-5001	Midcoat W8802-0004	Topcoat W8802-6004	Test method
30±1	45±1 (003)	45±1	220°CX30min
1.3±0.1	1.3±0.1	1.4±0.1	Specific gravity cup
400~600	400~600	300~500	Rotational viscosimeter
	7~10	y00321	pH meter
	Flash black		
20~25			60°gloss meter
35~45			Coating-thickness gauge
			ZHONGHUA pencil normal temperature
	100/100		
Y			1 0321
380°CX10min			1
K00357	4,000	-4110N-CO	BS 7069
	36h	<u> </u>	BS 7069
	W8802-5001 30±1 1.3±0.1	W8802-5001 W8802-0004 30±1 1.3±0.1 400~600 7~10 Flash black 20~25 35~45 HB 100/100 Die-casting alun 380°CX10min 4,000	W8802-5001 W8802-0004 W8802-6004 W8802-

五、涂层性能

	一不粘性	
检测方法	1.将涂料喷于平底压铸铝锅后,用380°Cx10mi 60°C左右含洗洁精的温水洗净擦干。 2.将测试锅放在电磁炉上加热,温度控制在150内,待鸡蛋凝固后,用小铲将鸡蛋铲起,蛋白53.同一位置重复上述操作10次,详细记录。	0℃-180℃,将鸡蛋打入锅
检测结果	能煎起鸡蛋数≥10个。	
	二耐磨性	
检测方法	1.将测试样品牢牢安装在支撑物上,垫上3M百2.配置5g/L清洁液倒于不粘表面,用3kg/21cn移动一个循环为一次,250次更新一次耐磨垫。3.更换耐磨垫的同时检查样品表面,直至出现5	n²力来回擦拭,耐磨垫往复
检测结果	耐磨4000次	
	三 耐盐水性	21
检测方法	1.配置10%NaCl盐水于测试锅(平底压铸锅)内,盐1/2。 2.加热使盐水溶液始终保持微沸状态,每半小时补3.连续煮6h为一循环,24h换一次盐水。 4.每次循环后用50℃-70℃洗洁精液(5%)清洗,干	清水一次保证盐水不煮干。
检测结果	36小时无起泡等缺陷。	



V. Coating Performances

	Non-stick property	
Test Method	1Spray the coating on a die-casting pan, sinter the film at 380°C it with about 60°C detergent water after natural cooling. 2.Heat the workpiece on the induction cooker, keep the temperat 180°C, put the shelled egg into the pan, then scoop up the caky white is in good condition, and not attached with the pan. 3.Fry 10 eggs on the same position and keep detailed records.	ure between 150°C to
Test Result	The scooped eggs amount to 10 or more.	
	Abrasion resistance	
Test Method	1.Fix the tested workpiece to the support firmly, and put a 3M sconon-stick surface. 2.Make and pour some detergent water (5g/L) into the pan, and with 3kg/21cm² pressure. Take one reciprocating move as a cycle pad every 250 cycles. 3.Check the workpiece surface while replacing the scouring pad, are 5 or more obvious non-hiding scratches appear on the coating	rub the pan back and fort and replace the scouring stop testing until there
Test Result	The film could afford 4,000 cycles rubbing.	
	Salt water resistance	
Test Method	1. Pour 10% NaCl solution into the pan (die-casting pan) , make is no less than half of the pan's volume. 2. Keep the NaCl solution being boiling, add pure water every 30 solution from being boiled dry. 3. Take 6 continuous hours as a cycle, and replace the solution ever 4. Wash the pan with detergent solution (50°C~70°C, 5%) after each pan, then check if there is any defect on the film through eyes	minutes to prevent the ery 24 hours. each cycle and wipe dry
	(6)	ON T

六、认证报告 Certification Reports



No: SHFDO110100092FDE

Client name: ZHEJIANG PFLUON TECHNOLOGY CO., LTD Client address: NO. 588 HUATAI ROAD, NEW DISTRICT, JINPAN DEVELOPMENT AREA, JINHUA, ZHEJIANG

The following sample(s) was/were submitted by/ on behalf of the client as (except SGS Reference No. & SGS Job No. & Date of receipt & Testing period):

Sample Name: W series water-base fluororesin non-stick coating Batch No./Date: //
Manufacturer: ZHEJIANG PFLUON TECHNOLOGY CO., LTD SGS Reference No. SHAFD1100139401
SGS Job No.: SHFD0110100092FD Date of receipt: Jan 05 2011 Testing period: Jan 05 2011~ Jan 11 2011

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
As specified for client, for compliance with Food and Drug Administration Regulations for determining the amount of extractives from resinous or polymeric coating.

TEST METHOD(S): As specified in FDA 21 CFR 175.300.

TEST RESULT(S):

Please refer to next page

CONCLUSION:

The submitted Black coating part sample said to be used for W series water-base fluororesin non-stick coating complying with the FDA specifications of determining the amount of extractives from resinous or polymer coating used as the food-contact surface of articles.

Remark: This test report is in English and maybe translated into other languages, The English version

Signed for and on behalf of SGS

Page 1 of 2

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No: SHFDO110100092FDE **Test Report**

Simulant used	Time	Temperature	Total Extractices (mg/inch²)	Maximum Permissible Limit (mg/inch²)
Distilled Water	2hr	250° F	0.1	18
n-Heptane	2hr	150° F	< 0.1	18

SAMPLE DESCRIPTION: Black coating part



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Test Report

No. NGBEC1100001803

Date: 07 Jan 2011

ZHEJIANG PELUON TECHNOLOGY CO.,LTD

NO.588 HUATAI ROAD, NEW DISTRICT, JINPAN DEVELOPMENT AREA, JINHUA, ZHEJIANG

The following sample(s) was/were submitted and identified on behalf of the clients as: W series water-base

fluororesin non-stick coating

SGS Job No. :

Conclusion:

NP11-000003 - NB

Date of Sample Received : 04 Jan 2011

04 Jan 2011 - 07 Jan 2011 Testing Period: Test Requested : Selected test(s) as requested by client.

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

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

Based on the performed tests on submitted samples, the results comply with the

RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SGS-CSTC Ltd.

Wang Wei, Terry Approved Signatory

Member of the SGS Group (SGS SA)





Test Report Page 2 of 5 No. NGREC1100001803 Date: 07 Jan 2011

Test Results :

Test Part Description :

Specimen No. SGS Sample ID Description NGB11-000018.002 Black liquid

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method: With reference to IEC 62321:2008

- Yvinn reservois to Los247:2008
(1) Determination of Cadmium by ICP-OES.
(2) Determination of Lead by ICP-OES.
(3) Determination of Mercury by ICP-OES.
(4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl		mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl		mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl		mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl		mg/kg	5	ND
Decabromobiphenyl		mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg		ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. NGBEC11000018	No. NGBEC1100001803		Jan 2011	Page 3 of 5
Test Item(s)	Limit	Unit	MDL	002	
Dibromodiphenyl ether		mg/kg	5	ND	
Tribromodiphenyl ether		mg/kg	5	ND	
Tetrabromodiphenyl ether		mg/kg	5	ND	
Pentabromodiphenyl ether		mg/kg	5	ND	
Hexabromodiphenyl ether		mg/kg	5	ND	
Heptabromodiphenyl ether		mg/kg	5	ND	
Octabromodiphenyl ether		mg/kg	5	ND	
Nonabromodiphenyl ether	2	mg/kg	5	ND	
Decabromodiphenyl ether	_AA	mg/kg	5	ND	

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (2) Result shown is of the total weight of wet sample



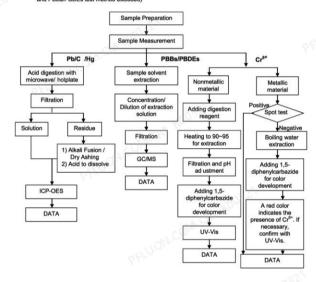


Test Report No. NGBEC1100001803 Date: 07 Jan 2011

ATTACHMENTS

RoHS Testing Flow Chart

- Name of the person who made testing: Tyler Jia/ Rock Hu / Take Guan/ Claire Bao
 Name of the person in charge of testing: Sharon Liu / Gavin Zhou
 These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr²⁺ and PBBs/PBDEs test method excluded)



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Test Report

No. NGBEC1100001803

Date: 07 Jan 2011

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SGS authenticate the photo on original report only End of Report



Test Report No. NGBEC1100001902 Date: 12 Jan 2011

ZHEJIANG PELUON TECHNOLOGY CO.,LTD

NO.588 HUATAI ROAD.NEW DISTRICT.JINPAN DEVELOPMENT AREA.JINHUA.ZHEJIANG

The following sample(s) was/were submitted and identified on behalf of the clients as: W series water-base fluororesin non-stick coating

SGS Job No.:

NP11-000003 - NB Date of Sample Received : 04 Jan 2011

Testing Period : 04 Jan 2011 - 12 Jan 2011

Test Requested : Selected test(s) as requested by client.

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

When tested as specified, the submitted sample comply with the permissible Conclusion:

safety limit as specified in LFGB, Section 30 and 31.

Signed for and on behalf of SGS-CSTC Ltd.

Wang Wei, Terry Lab Manager



Test Report No. NGBEC1100001902

Date: 12 Jan 2011 Page 2 of 5

Test Results:

Test Part Description :

 Specimen No.
 SGS Sample ID
 Description

 1
 NGB11-000019.006
 Black coating

 2
 NGB11-000019.010
 Black pan

Overall migration

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005

(LFGB), Section 30 and 31, BfR recommendation.

For material: Polymer coating for cooking purpose -Overall migration

Test Method: With reference to EN1186-1:2002 for selection of conditions and test method;

EN1186-9:2002 aqueous food simulants by article filling method;

EN 1186-14:2002 substitute test.

Simulant Used	Time	Temperature	Max. Permissible	Result of 006
Simulatic Good		Tomporataro	Limit	Overall Migration
Deionized Water	2.0hr	100°C	60mg/kg	<20mg/kg
3% Acetic Acid (W/V) Aqueous Solution	2.0hr	100°C	60mg/kg	<20mg/kg
95% Ethanol (V/V) Aqueous Solution (Rectified Oliver Oil Substitute)	3.5hr	60°C	60mg/kg	<20mg/kg
Isooctane (Rectified Oliver Oil Substitute)	1.5hr	60°C	60mg/kg	<20mg/kg
50% Ethanol (V/V) Aqueous Solution	2.0hr	100°C	60mg/kg	<20mg/kg

Notes

(1) mg/kg = milligram per kilogram

- (2) °C=degree Celsius
- (3) < = less than
- (4) Analytical tolerance of aqueous simulants is 6mg/kg
- (5) Analytical tolerance of fatty food simulants is 20mg/kg
- (6) Test condition & simulant were specified by client.

Phenolic substance (as phenol), Extractable Formaldehyde, Extractable Aromatic Amine, Extractable Chromium (VI) and Extractable Chromium (III)

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005

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Test Report No. NGBEC1100001902 Date: 12 Jan 2011 Page 3 of 5

(LFGB), Section 30 and 31, BfR recommendation.

For material: Polymer coating for cooking purpose -

- a) Phenolic substance (as phenol)
 b) Extractable Formaldehyde
- c) Extractable Aromatic Amine
- d) Extractable Chromium (VI)
- e) Extractable Chromium (III)

Test Method : a-d) Sample extracted in 3% acetic acid at 95 deg. Celsius for 90 minutes, followed by analysis using UV-vis Spectrophotometer

e) Sample extracted in 3% acetic acid at 95 deg. Celsius for 90 minutes, followed by analysis using ICP-OES.

Test Item(s)	<u>Limit</u>	<u>006</u>
Phenolic substance (as phenol), mg/dm²	0.05	< 0.05
Extractable Formaldehyde, mg/dm²	2.5	<1.0
Extractable Aromatic Amine, mg/kg	Absent	Absent
Extractable Chromium (VI), mg/L	Absent	Absent
Extractable Chromium (III), mg/L	0.02	< 0.02

Notes:

- (1) Detection Limit for Extractable Aromatic Amine is 0.02mg/kg
- (2) Detection Limit for Extractable Chromium (VI) is 0.02mg/L

Sensorial examination odour and taste test

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005

(LFGB), Section 30 and 31, BfR recommendation. Sensorial examination odour and taste test

Test Method: Robinson's test with reference to DIN 10955:1983 (2004).

Odour test condition: 23°C 24 hours; Taste test condition: 100°C 2hours; Test media:Distilled water;

No. of panelist: 5

Test Item(s)	<u>Limit</u>	010
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0

Notes

Scale evaluation

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Test Report

No. NGBEC1100001902

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No perceptible odour
 Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour

Extractable PFOA

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005

(LFGB), Section 30 and 31, BfR recommendation.

For material: Polymer coating for cooking purpose - Extractable PFOA Content

Test Method: Sample extracted in 3% acetic acid at 95 deg. Celsius for 90 minutes, followed by analysis using

HPLC-MS.

Test Item(s) MDL Extractable PFOA 0.005 mg/dm²

Notes:

- (1) 1mg/kg=1ppm=0.0001% (2) ND = Not detected
- (3) MDL = Method Detection Limit
- (4) mg/dm²=milligram per square decimeter

Member of the SGS Group (SGS SA)





Test Report

No. NGBEC1100001902

Date: 12 Jan 2011

Sample photo:





SGS authenticate the photo on original report only

End of Report

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