

检测报告(Test Report)

检测报告编号(Report No.): WTH19H06037996C-1 日期(Date): 2019/6/27 页数(Page): 1 of 13

委托单位: 佛山市麦克罗美的滤芯设备制造有限公司
Applicant: Foshan City Maikeluo Midea Filter Equipment Manufacturing Co., Ltd.
单位地址: 佛山市北滘镇林港路 19 号樱花工业园 B 区东门
Address: East Gate, Area B, Yinghua Industrial Park, No.19, Lingang Road, Beijiao Town, Foshan City

样品信息(Sample Information)

样品名称(Sample Name): 请参见后续页(Please refer to following page(s)).
样品描述(Sample Description): 请参见后续页(Please refer to following page(s)).
部件名称(Part Name): 请参见后续页(Please refer to following page(s)).
样品材质(Sample Material): 请参见后续页(Please refer to following page(s)).
样品编号(Sample No.): WTH19H06037996C01
委托日期(Sample Received Date): 2019/6/12
检测日期(Testing Period): 2019/6/12 - 2019/6/27

检测要求(Test Requested): 请参见后续页(Please refer to following page(s)).

检测结果(Test Result): 请参见后续页(Please refer to following page(s)).

授权签字人
Signed for and on behalf of HCT

Michael Huang

Michael Huang



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检测要求(Test Requested):	结论(Conclusion)
1.根据客户要求, 参照欧洲委员会标准(EU) 10/2011, 对送检样品进行检测(As specified by client, with reference to European Commission Regulation (EU) 10/2011, to determine the submitted sample):	
-全面迁移(Overall migration)	合格(PASS)
-重金属迁移(Heavy metal migration)	合格(PASS)
-初级芳香胺特定迁移(Specific migration of Primary Aromatic Amine(PAA))	合格(PASS)
-邻苯特定迁移(Specific migration of Phthalates)	合格(PASS)
-邻苯5P总量(Phthalates (DBP, BBP, DEHP, DINP, DIDP) Content)	合格(PASS)
2.根据客户要求, 参照委员会(欧盟)Res AP (2004) 5/4, 对送检样品进行检测(As specified by client, with reference to Resolution Res AP(2004)5/4, to determine the submitted sample):	
-全面迁移(Overall migration)	合格(PASS)
-初级芳香胺特定迁移(Specific migration of Primary Aromatic Amine(PAA))	合格(PASS)

序号(No.)	样品名称(Sample Name)	部件名称(Part Name)	样品材质(Sample Material)
1	MF-2711 F1 前/后置活性炭滤芯 (MF-2711 F1 front/rear activated carbon filter)	滤瓶(Filter bottle)	PP CJS700
2		滤布(Filter fabric)	PP
3		端盖(End cap)	PP J550S
4		PP 管(PP tube)	PP
5		密封圈(Seal ring)	NBR

序号(No.)	样品描述(Sample Description)	
1	白色塑料	White plastic
2	白色塑料滤布	White plastic filter fabric
3	白色塑料盖	White plastic cover
4	半透明塑料管	Translucent plastic tube
5	黑色橡胶圈	Black rubber ring

备注(Note):

The specimen(s) 3 was(were) submitted on June 13, 2019.

样品 3 于 2019 年 6 月 13 日送检。



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检测结果(Test Result(s)):

1.法规 (EC) No 1935/2004&欧洲委员会标准(EU) No 10/2011(Regulation (EC) No 1935/2004&European Commission Regulation (EU) No 10/2011)

全面迁移(Overall migration)

检测方法(Test Method): EN 1186-9:2002

单位(Unit): mg/dm²

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)		最大允许限值 (Maximum Permissible Limit)
			1		
10%乙醇 10% Ethanol	40℃, 10 天 40℃ for 10 days	1.0	4.4		10

检测方法(Test Method): EN 1186-3:2002

单位(Unit): mg/dm²

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)		最大允许限值 (Maximum Permissible Limit)
			2		
10%乙醇 10% Ethanol	40℃, 10 天 40℃ for 10 days	1.0	2.6		10

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)		最大允许限值 (Maximum Permissible Limit)
			3	4	
10%乙醇 10% Ethanol	40℃, 10 天 40℃ for 10 days	1.0	6.7	N.D.	10

备注(Note):

mg/dm² = milligram per square decimeter, 毫克/平方分米

MDL=Method Detection Limit 方法检出限

N.D.=Not Detected(less than method detection limit), 未检出(小于方法检出限)



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重金属迁移(Heavy metal migration)

检测方法(Test Method): EN13130-1:2004

单位(Unit): mg/kg

检测项目 (Test Items)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)		最大允许限值 (Maximum Permissible Limit)
			1	2	
钡 Barium Migration	3%乙酸, 40°C, 10 天 (3% Acetic acid, 40°C for 10 days)	0.1	N.D.	N.D.	1
钴 Cobalt Migration		0.01	N.D.	N.D.	0.05
铜 Copper Migration		0.1	N.D.	N.D.	5
铁 Iron Migration		1	N.D.	N.D.	48
锂 Lithium Migration		0.05	N.D.	N.D.	0.6
锰 Manganese Migration		0.05	N.D.	N.D.	0.6
锌 Zinc Migration		1	N.D.	N.D.	5
镍 Nickel Migration		0.01	N.D.	N.D.	0.02
铝 Aluminum Migration		0.1	N.D.	N.D.	1

检测项目 (Test Items)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)		最大允许限值 (Maximum Permissible Limit)
			3	4	
钡 Barium Migration	3%乙酸, 40°C, 10 天 (3% Acetic acid, 40°C for 10 days)	0.1	N.D.	N.D.	1
钴 Cobalt Migration		0.01	N.D.	N.D.	0.05
铜 Copper Migration		0.1	N.D.	N.D.	5
铁 Iron Migration		1	N.D.	N.D.	48
锂 Lithium Migration		0.05	N.D.	N.D.	0.6
锰 Manganese Migration		0.05	N.D.	N.D.	0.6
锌 Zinc Migration		1	N.D.	N.D.	5
镍 Nickel Migration		0.01	N.D.	N.D.	0.02
铝 Aluminum Migration		0.1	N.D.	N.D.	1

备注(Note):

mg/kg=ppm= parts per million

N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限)

MDL=Method Detection Limit 方法检出限



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初级芳香胺特定迁移(Specific migration of Primary Aromatic Amine(PAA))

检测方法(Test Method): EN13130-1:2004

单位(Unit): mg/kg

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Result)		最大允许限值 (Maximum Permissible Limit)
			1	2	
初级芳香胺 Primary Aromatic Amine (PAA)	3%乙酸, 40°C, 10 天 (3% Acetic acid, 40°C for 10 days)	0.01	N.D.	N.D.	0.01

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Result)		最大允许限值 (Maximum Permissible Limit)
			3	4	
初级芳香胺 Primary Aromatic Amine (PAA)	3%乙酸, 40°C, 10 天 (3% Acetic acid, 40°C for 10 days)	0.01	N.D.	N.D.	0.01

备注(Note):

mg/kg=ppm= parts per million

MDL=Method Detection Limit 方法检出限

N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限)



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邻苯特定迁移(Specific migration of Phthalates)

检测方法(Test Method): EN 13130-1:2004

模拟液(Simulant Used): 95%乙醇(95% Ethanol)

检测条件(Test Condition): 40°C, 10天 (40°C for 10 days)

单位(Unit): mg/kg

检测项目 (Test Items)	CAS号 (CAS No.)	方法检出限 (MDL)	结果(Results)		最大允许限值 (Maximum Permissible Limit)
			1	2	
表面积 (dm ²) / 浸泡体积 (mL) Surface area (dm ²)/Volume (mL)	/	/	1.2/200	1.2/200	/
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)	84-74-2	0.05	N.D.	N.D.	0.3
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)	85-68-7	0.25	N.D.	N.D.	30
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.25	N.D.	N.D.	1.5
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	28553-12-0, 68515-48-0	1.00	N.D.	N.D.	9
邻苯二甲酸二异癸酯 Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	1.00	N.D.	N.D.	9
邻苯二甲酸二丙烯酯(DAP) Diallyl phthalate (DAP)	131-17-9	0.01	N.D.	N.D.	N.D.
1, 2-苯二甲酸癸基辛基酯(nDnOP) n-decyl n-octyl phthalate (nDnOP)	119-07-3	0.25	N.D.	N.D.	5
邻苯二甲酸二癸酯(DnDP) Di-n-decyl Phthalate (DnDP)	84-77-5		N.D.	N.D.	
邻苯二甲酸二正辛酯(DnOP) Di-n-octyl phthalate (DnOP)	117-84-0		N.D.	N.D.	



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检测项目 (Test Items)	CAS号 (CAS No.)	方法检出限 (MDL)	结果(Results)		最大允许限值 (Maximum Permissible Limit)
			3	4	
表面积 (dm ²) /浸泡体积 (mL) Surface area (dm ²)/Volume (mL)	/	/	1.2/200	1.2/200	/
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)	84-74-2	0.05	N.D.	N.D.	0.3
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)	85-68-7	0.25	N.D.	N.D.	30
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.25	N.D.	N.D.	1.5
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	28553-12-0, 68515-48-0	1.00	N.D.	N.D.	9
邻苯二甲酸二异癸酯 Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	1.00	N.D.	N.D.	9
邻苯二甲酸二丙烯酯(DAP) Diallyl phthalate (DAP)	131-17-9	0.01	N.D.	N.D.	N.D.
1, 2-苯二甲酸癸基辛基酯(nDnOP) n-decyl n-octyl phthalate (nDnOP)	119-07-3	0.25	N.D.	N.D.	5
邻苯二甲酸二癸酯(DnDP) Di-n-decyl Phthalate (DnDP)	84-77-5		N.D.	N.D.	
邻苯二甲酸二正辛酯(DnOP) Di-n-octyl phthalate (DnOP)	117-84-0		N.D.	N.D.	



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模拟液(Simulant Used): 异辛烷(Isooctane)

检测条件(Test Condition): 20℃ , 2天 (20℃ for 2 days)

单位(Unit): mg/kg

检测项目 (Test Items)	CAS号 (CAS No.)	方法检出限 (MDL)	结果(Results)		最大允许限值 (Maximum Permissible Limit)
			1	2	
表面积 (dm ²) / 浸泡体积 (mL) Surface area (dm ²)/Volume (mL)	/	/	1.2/200	1.2/200	/
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)	84-74-2	0.05	N.D.	N.D.	0.3
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)	85-68-7	0.25	N.D.	N.D.	30
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.25	N.D.	N.D.	1.5
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	28553-12-0, 68515-48-0	1.00	N.D.	N.D.	9
邻苯二甲酸二异癸酯 Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	1.00	N.D.	N.D.	9
邻苯二甲酸二丙烯酯(DAP) Diallyl phthalate (DAP)	131-17-9	0.01	N.D.	N.D.	N.D.
1, 2-苯二甲酸癸基辛基酯(nDnOP) n-decyl n-octyl phthalate (nDnOP)	119-07-3	0.25	N.D.	N.D.	5
邻苯二甲酸二癸酯(DnDP) Di-n-decyl Phthalate (DnDP)	84-77-5		N.D.	N.D.	
邻苯二甲酸二正辛酯(DnOP) Di-n-octyl phthalate (DnOP)	117-84-0		N.D.	N.D.	



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检测项目 (Test Items)	CAS号 (CAS No.)	方法检出限 (MDL)	结果(Results)		最大允许限值 (Maximum Permissible Limit)
			3	4	
表面积 (dm ²) /浸泡体积 (mL) Surface area (dm ²)/Volume (mL)	/	/	1.2/200	1.2/200	/
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)	84-74-2	0.05	N.D.	N.D.	0.3
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)	85-68-7	0.25	N.D.	N.D.	30
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.25	N.D.	N.D.	1.5
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	28553-12-0, 68515-48-0	1.00	N.D.	N.D.	9
邻苯二甲酸二异癸酯 Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	1.00	N.D.	N.D.	9
邻苯二甲酸二丙烯酯(DAP) Diallyl phthalate (DAP)	131-17-9	0.01	N.D.	N.D.	N.D.
1, 2-苯二甲酸癸基辛基酯(nDnOP) n-decyl n-octyl phthalate (nDnOP)	119-07-3	0.25	N.D.	N.D.	5
邻苯二甲酸二癸酯(DnDP) Di-n-decyl Phthalate (DnDP)	84-77-5		N.D.	N.D.	
邻苯二甲酸二正辛酯(DnOP) Di-n-octyl phthalate (DnOP)	117-84-0		N.D.	N.D.	

备注(Note):

0.1%=1000mg/kg

mg/kg=ppm= parts per million

MDL=Method Detection Limit 方法检出限

N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限)



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邻苯5P总量(Phthalates (DBP, BBP, DEHP, DINP, DIDP) Content)

检测方法(Test Method): EN14372:2004

Unit: %

检测项目 (Test Items)	CAS号 (CAS No.)	方法检出限 (MDL)	含量 (Content)		最大允许限值 (Maximum Permissible Limit)
			1	2	
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)	84-74-2	0.003	N.D.	N.D.	0.05
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)	85-68-7	0.003	N.D.	N.D.	0.1
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.003	N.D.	N.D.	0.1
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	28553-12-0, 68515-48-0	0.01	N.D.	N.D.	0.1
邻苯二甲酸二异癸酯 Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	0.01	N.D.	N.D.	0.1

检测项目 (Test Items)	CAS号 (CAS No.)	方法检出限 (MDL)	含量 (Content)		最大允许限值 (Maximum Permissible Limit)
			3	4	
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)	84-74-2	0.003	N.D.	N.D.	0.05
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)	85-68-7	0.003	N.D.	N.D.	0.1
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.003	N.D.	N.D.	0.1
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP)	28553-12-0, 68515-48-0	0.01	N.D.	N.D.	0.1
邻苯二甲酸二异癸酯 Di-isodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	0.01	N.D.	N.D.	0.1

备注(Note):

0.1%=1000mg/kg

MDL=Method Detection Limit 方法检出限

N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限)



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2. 委员会(欧盟)Res AP (2004) 5/4(Res AP(2004) 5/4)

全面迁移(Overall migration)

检测方法(Test Method): EN 1186-3:2002

单位(Unit): mg/dm²

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)	最大允许限值 (Maximum Permissible Limit)
			5	
10%乙醇 10% Ethanol	40°C, 10 天 40°C for 10 days	1.0	5.1	10

备注(Note):

mg/dm² = milligram per square decimeter, 毫克/平方分米

MDL=Method Detection Limit 方法检出限

初级芳香胺特定迁移(Specific migration of Primary Aromatic Amine(PAA))

检测方法(Test Method): EN 13130-1:2004

单位(Unit): mg/kg

检测项目 (Test Item)	检测条件 (Test Condition)	方法检出限 (MDL)	结果 (Results)	最大允许限值 (Maximum Permissible Limit)
			5	
初级芳香胺 Primary Aromatic Amine (PAA)	3%乙酸, 40°C, 10 天 (3% Acetic acid, 40°C for 10 days)	0.01	N.D.	0.01

备注(Note):

mg/kg=ppm= parts per million

MDL=Method Detection Limit 方法检出限

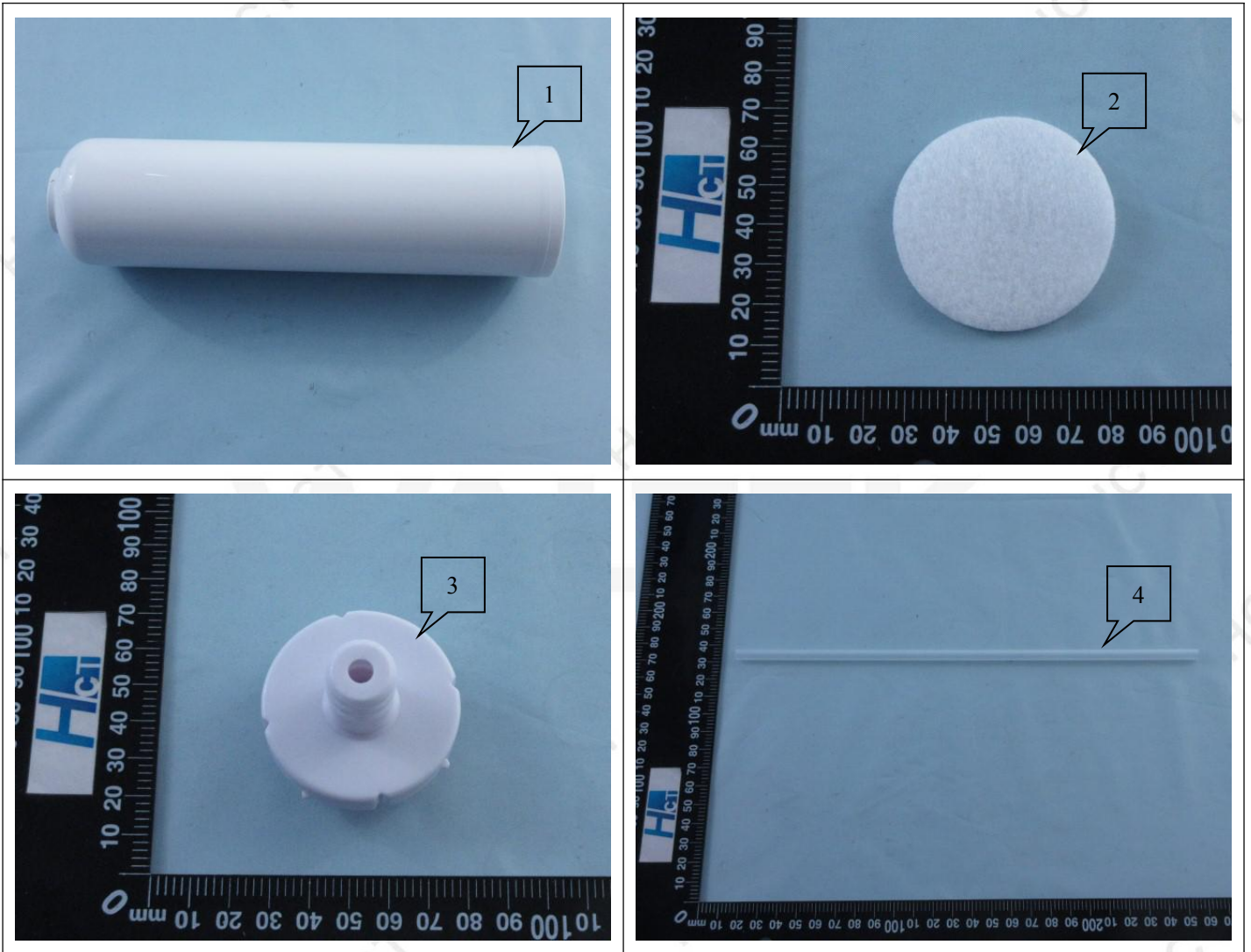
N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限)



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样品附图(The photo of the sample)



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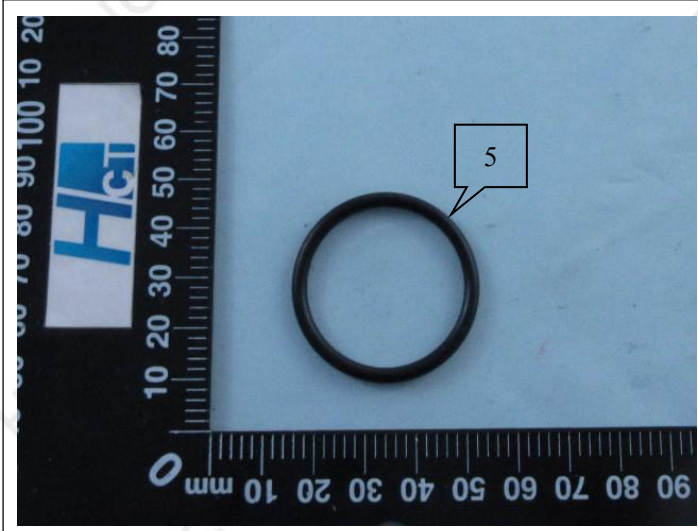


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*****报告结束(End)*****

本报告 HCT 盖章才生效, 本报告不可以删改。本报告只对送检样品的检测结果负责。
未经本公司书面授权, 不得部分复制本报告做宣传品使用。

This report will go into effect with HCT stamp. This report could not be revised. This report is only responsible for the test result of submitted samples. Without written authorization, any copy of this report for propaganda is invalid.

