RoHS
TEST REPORT

Prepared for :

Hengshui Jingtong Rubber Co., Ltd

Southeast corner of Guihua Street, Hegang Road, Wuyi County Economic Development Zone,Hengshui city, Hebei province, China (Wuyi science and technology enterprise Entrepreneurial Park 11-3)

Product:	**Waterstop**
Trade Mark:	**N/A**
Model Name:	**JTE21RE**
Date of Test:	**Oct.14,2024 to Oct.17,2024**
Date of Report:	**Oct.17,2024**
Report Number:	**HS202410177898-1ER**

Prepared By :

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TEST RESULT CERTIFICATION

Applicant	:	Hengshui Jingtong Rubber Co., Ltd
Address	:	Southeast corner of Guihua Street, Hegang Road, Wuyi County Economic Development Zone,Hengshui city, Hebei province, China (Wuyi science and technology enterprise Entrepreneurial Park 11-3)
Manufacturer	:	Hengshui Jingtong Rubber Co., Ltd
Address	:	Southeast corner of Guihua Street, Hegang Road, Wuyi County Economic Development Zone,Hengshui city, Hebei province, China (Wuyi science and technology enterprise Entrepreneurial Park 11-3)
Product name	:	Waterstop
Product model	:	JTE21RE
Trade Mark	:	N/A
Date of Sample Received	:	Oct.14,2024
Testing Period	:	Oct.14,2024 to Oct.17,2024

Test Requested:

Based on the performed test on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as bis-(2-ethylhexyl)-Phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl Phthalate (DBP), Diisobutyl Phthalate (DIBP) comply with the limits as set by RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.

Conclusion

PASS

Prepared by: Rock.Ren
Project Engineer

Reviewed by: Snow
Project Manager

Approved by: Smile
Technical Director

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2024/10/17	Smile Xu

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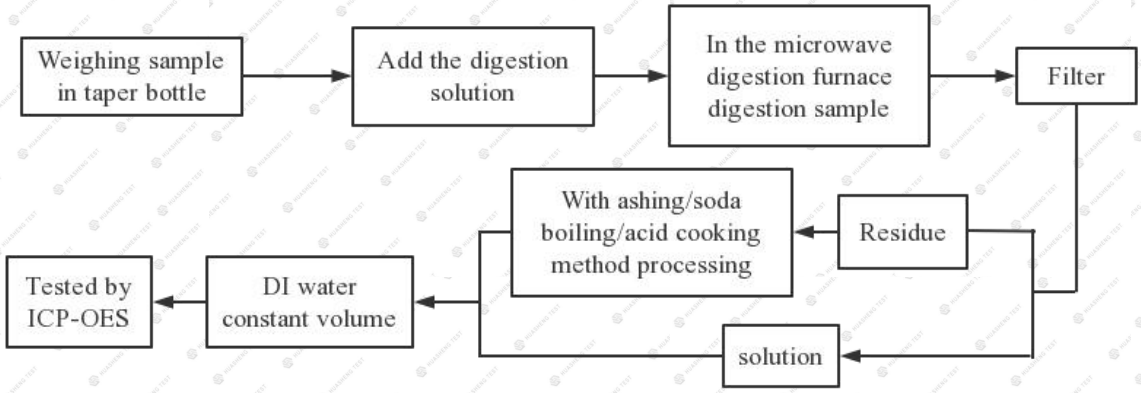
1.Test Method(s):

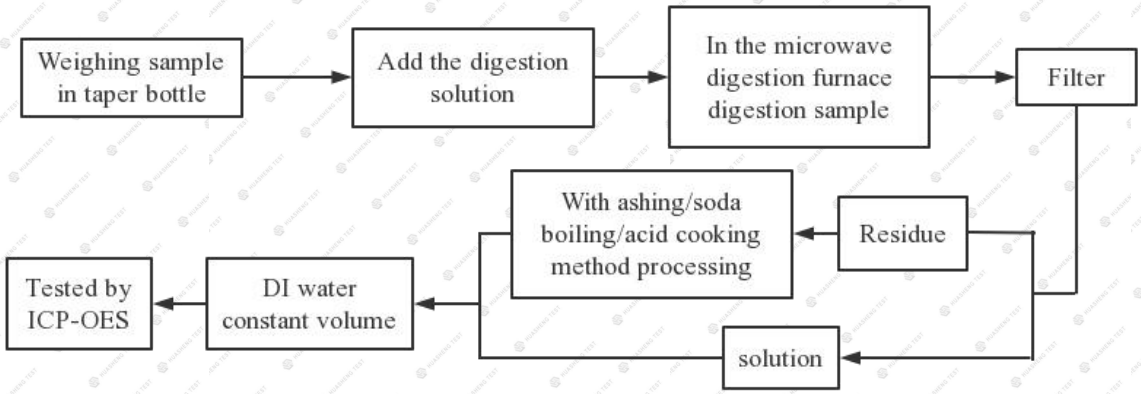
Testing item	Testing Method	Equipment
Screening analysis by XRF		
Lead(Pb) Cadmium(Cd) Mercury(Hg) Chromium(Cr) Bromine(Br)	IEC 62321-3-1-2013	ED-XRF
Chemical testing		
Lead(Pb)	IEC 62321-5-2013	ICP-OES
Cadmium(Cd)	IEC 62321-5-2013	ICP-OES
Mercury(Hg)	IEC 62321-4-2013+A1:2017	ICP-OES
Chromium(Cr VI) for plastic	IEC 62321-7-2:2017	UV-Vis
Chromium(Cr VI) for coating on metals	IEC 62321-7-1:2015	UV-Vis
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS
DEHP/DBP/BBP/ DIBP	IEC 62321-8:2017	GC-MS

2.Test Flow:

1. Lead(Pb), Cadmium(Cd)



2. Mercury (Hg)



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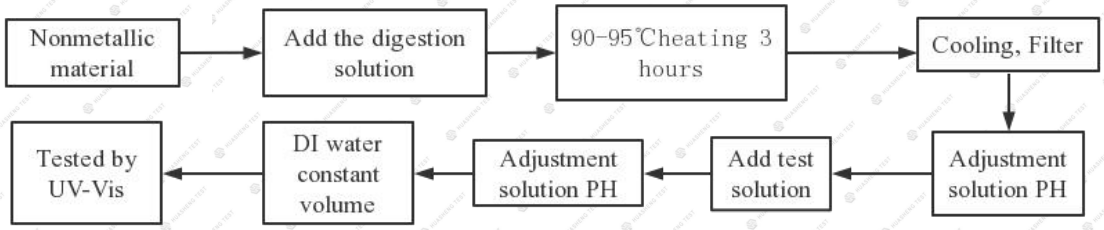
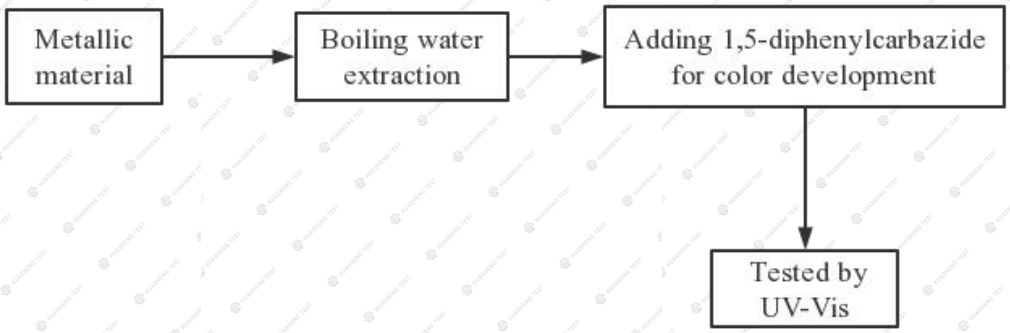
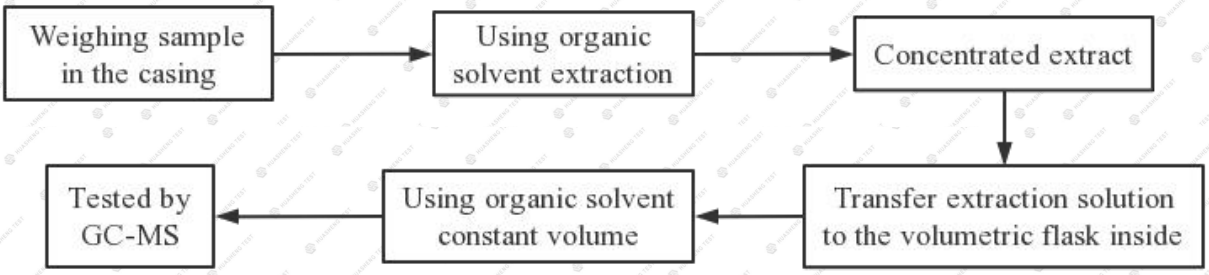
3. Hexavalent Chromium(Cr VI) (Alkaline extraction)



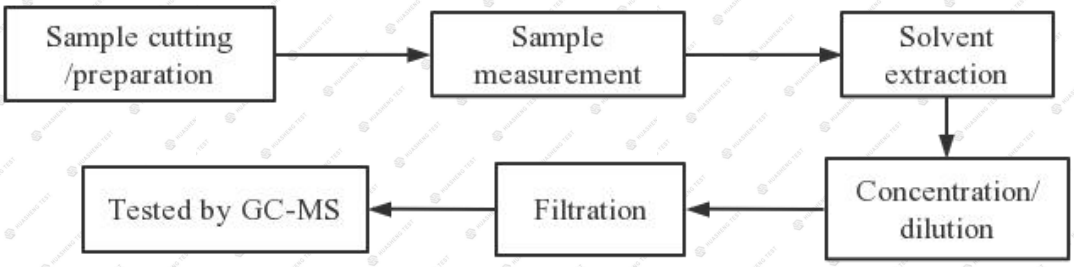
4. Hexavalent Chromium(Cr VI) (Boiling water extraction)



5. PBBs/ PBDEs



6. DEHP/ BBP/ DBP/ DIBP



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3.Test Results：

Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
1	Blue silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	
2	Black silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	
3	Blue silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
4	Yellow silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	
5	Red silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	
6	Black silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
7	Green silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	
8	Black silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	
9	Black silicone	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	ND	
		DBP	--	ND	
		BBP	--	ND	
		DIBP	--	ND	

Remark:

1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr^{6+}.

(b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

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Element	Polymers	Metals	Composite Material
Cd	BL≤ (70-3σ)< X <(130+3σ)≤ OL	BL≤ (70-3σ)< X <(130+3σ)≤ OL	LOD < X <(150+3σ)≤ OL
Pb	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (500-3σ)< X <(1500+3σ)≤OL
Hg	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (500-3σ)< X <(1500+3σ)≤OL
Cr	BL ≤ (700-3σ) < X	BL ≤ (700-3σ) < X	BL ≤ *(500-3σ) < X*
Br	BL ≤ (300-3σ) < X	NA	BL ≤ *(250-3σ) < X*

(c) OL=Over Limit, BL=Below Limit, X=inconclusive, LOD=Limit of Detection, NA=not applicable, -- = No Testing

(d) The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition

2) (a) mg/kg=ppm=0.0001%, N.D.=not detected (＜MDL)

(b) Unit and Method Detection Limit(MDL) in wet chemical test

Test Items	Unit	MDL	Limit
Pb	mg/kg	2	1000
Cd	mg/kg	2	100
Hg	mg/kg	2	1000
DBP	mg/kg	30	1000
BBP	mg/kg	30	1000
DEHP	mg/kg	30	1000
DIBP	mg/kg	30	1000

The MDL for single compound of PBBs &PBDEs is 20mg/kg, MDL of Cr^{6+} for metal sample is 0.10μg/cm². and MDL of Cr^{6+} for polymer & composite sample is 8 mg/kg.

(c) Metal sample:

-The sample is positive for Cr^{6+} if the Cr^{6+} concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr^{6+}.

-The sample is negative for Cr^{6+} if Cr^{6+} is ND (concentration less than 0.10 μg/cm²). The coating is considered a non- Cr^{6+} based coating

-The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr^{6+} results represent status of the sample at the time of testing.

3) As specified by client to test the specified materials only.

(4) *=According to the declaration from the client, Lead (Pb) in the sample are exempted by EU RoHS Directive 2011/65/EU based on ANNEX III 6(c): Copper alloy containing no more than 4% lead by weigh

(5) #=According to the declaration from the client, Lead (Pb) in the sample are exempted by EU RoHS Directive 2011/65/EU based on ANNEX III 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors

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Photograph of Sample

FIGURE 1

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

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