

Test Report

Report No. : AGC05443230510-001

- SAMPLE NAME : Spirit level pen in SS
- MODEL NAME : MO2072
- **APPLICANT** : MID OCEAN BRANDS B.V
- **STANDARD(S)** : Please refer to the following page(s).
- DATE OF ISSUE : Jun. 07, 2023









: MID OCEAN BRANDS B.V

Report No.: AGC05443230510-001

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Report on the submitted sample(s) said to be:

:

Sample Name	:	Spirit level pen in SS
Model	:	MO2072
Vendor code	:	114276
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample Received Date	:	May 17, 2023
Testing Period	:	May 17, 2023 to Jun. 07, 2023
Test Requested	:	Selected test(s) as requested by client.

Test Requested:

Conclusion

Pass

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 - Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 - Polycyclic-aromatic Hydrocarbons (PAHs) Content

Approved by : Jossie ling

Liangdan, Jessie.Liang

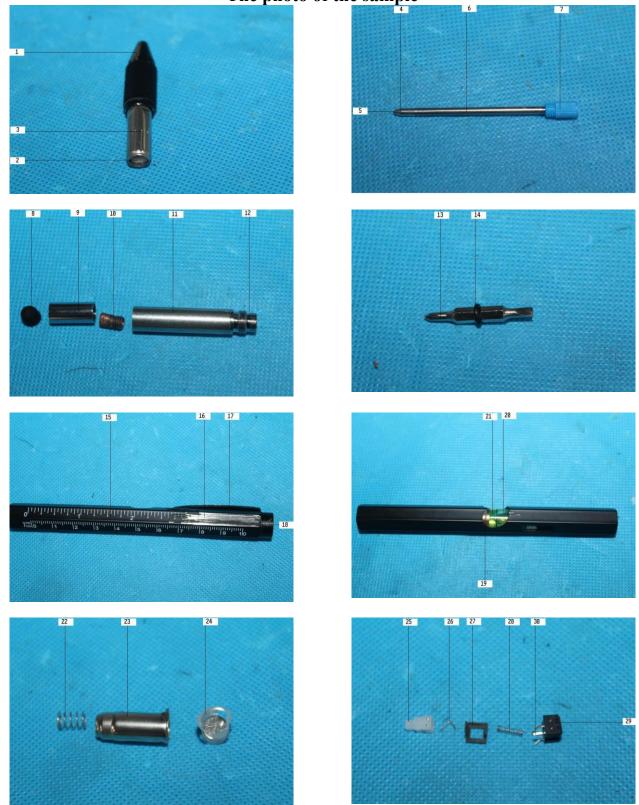
Technical Director



		Report Revise Record	
Report Version	Issued Date	Valid Version	Notes
/	Jun. 07, 2023	Valid	Initial release



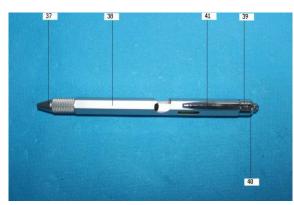
The photo of the sample



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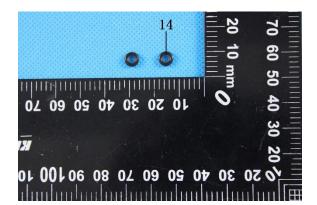


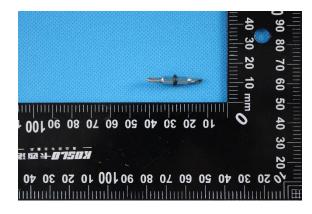


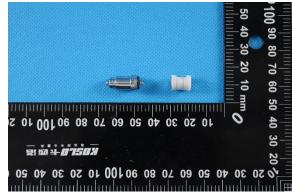












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Report No.: AGC05443230510-001







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Test Point Description

Test point	Test module	Test parts	Test point description
Spirit level	pen in SS Model :	MO2072	
1			Copper metal head base material
2		Pen point	Milk white plastic
3			Sliver metallic tube
4			Metal nib
5		Pen refill	Blue ink
6		Pen renn	Pen holder of metal
7			Blue plastic
8			Black rubber cap
9			Sliver metallic tube (short)
10		Connecting pipe	Copper plastic stopper
11			Sliver metallic tube (coarse)
12			Sliver metal threaded ring
13			Metal screwdriver
14		Screwariver	Black sealing ring
15			Black coating with white silk screen
16		Dan aasa	Metal pen shell base material
17		Pen case	Metal pen holder base material
18			Copper-colored metal pen holder retaining ring
19			Bronze metal ring
20		Spirit level	Transparent plastic shell
21			Liquid
22			Metal spring
23		Battery jacket	Sliver metallic sleeve
24			Transparent plastic sleeve
25			White plastic button
26		V av avrital	Silver hook
27		Key switch	Grey plastic shell
28			Metal spring

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29		Black plastic base		
30		Metal pin		
31		Silver plated plastic sleeve		
32		Black plastic sleeve		
33	 Lamp	Metal spring		
34		Metal pin		
35		Transparent LED		
36	 Copper colored metal knob ring base materia			
37	 Silver metal pen tip			
38	 	Sliver coating		
39	 	Silver metal pen holder retaining ring		
40	 	Sliver metal knob ring		
41	 	Silver metal pen holder		
1-1	 	Black rubber cap		
1-2	 	Black seal ring		
1-3	 	Black coating +Silver coating		
1-4	 	Transparent plastic case +Transparent LED		

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

- Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)		/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Total Chromium		/	/
Total Bromine	_	/	/
Chemistry Method			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	2mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	2mg/kg	1000mg/kg
Non-metal: Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal: Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	$0.1 \mu g/cm^2$	/
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)		50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)	— IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443230510-00 Conclusion
		Pb	IN	23652	
		Cd	BL	/	
]	Hg	BL	/	
	Cr	(Cr ⁶⁺)	BL	/	
1	Br	PBBs PBDEs	N/A	/	Conformity Exemption
-		IBP	N/A	/	clause 6(c)
-)BP	N/A	/	
-		BP	N/A	/	
		EHP	N/A	/	
		Pb	BL	/	
F		Cd	BL	/	
F		Hg	BL	/	
		(Cr^{6+})	BL	/	
-		PBBs		/	
2	Br	PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
	Pb		BL	/	
	Cd		BL	/	
	Hg		BL	/	
	Cr	(Cr^{6+})	BL	/	
3	Br	PBBs PBDEs	N/A	/	Conformity
F	D	IBP	N/A	/	
-		OBP	N/A	/	
		BBP	N/A	/	
	DEHP		N/A	/	
		Pb	BL	/	
		Cd	BL	/	
]	Hg	BL	/	
4		(Cr ⁶⁺)	IN	N.D.	
	Br	PBBs PBDEs	- N/A	/	Conformity
F	Π	IBP	N/A	/	
F)BP	N/A N/A	/	
-		BP	N/A N/A	/	
F		EHP	N/A	/	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
]	Pb	BL	/	
Γ	(Cd	BL	/	
		łg	BL	/	
	Cr(Cr ⁶⁺)	BL	/	
5	Br	PBBs PBDEs	BL	/	Conformity
	D	IBP	N/A	N.D.	
		BP	N/A	N.D.	
-		BP	N/A	N.D.	
F		EHP	N/A	N.D.	
		Pb	BL	/	
F		Cd	BL	/	
F		łg	BL	/	
-		<u>Cr⁶⁺)</u>	IN	N.D.	
_		PBBs		/	
6	Br	PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
	Pb		BL	/	
	Cd		BL	/	
	Hg		BL	/	
	Cr(Cr ⁶⁺)		BL	/	
7	Br	PBBs PBDEs	BL	/	Conformity
-	D	IBP	N/A	N.D.	
		BP	N/A	N.D.	
-		BP	N/A	N.D.	
-	DEHP		N/A	N.D.	
		Pb	BL	/	
-		Cd	BL	/	
-		łg	BL	/	
		<u>Cr⁶⁺)</u>	BL	/	
8	Br	PBBs PBDEs	BL	/	Conformity
F	D	IBP	N/A	N.D.	
F		BP	N/A	N.D.	
F		BP	N/A	N.D.	
F		EHP	N/A N/A	N.D.	



	Test Item		X-ray Fluorescence	Wet Chemistry	005443230510-00
Test point			Spectrometry (XRF) mg/kg	Method mg/kg	Conclusion
		Pb	IN	24761	
		Cd	BL	/	
		Hg	BL	/	
	Cr(Cr^{6+})	BL	/	
9	Br	PBBs PBDEs	N/A	/	Conformity Exemption
-	D	IBP	N/A	/	clause 6(c)
-		BP	N/A	/	
-		BP	N/A	/	
-		EHP	N/A	/	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
-		Cr^{6+}	BL	/	
-		PBBs		/	
10	Br	PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
_		Pb	BL	/	
_	Cd		BL	/	
	Hg		BL	/	
	Cr(Cr ⁶⁺)	IN	N.D.	
11	Br	PBBs PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
		Pb	IN	24805	
	(Cd	BL	/	
]	Hg	BL	/	
F		Cr ⁶⁺)	BL	/	~ ^ .
12		PBBs		/	Conformity
12	Br	PBDEs	N/A	/	Exemption clause 6(c)
	D	IBP	N/A	/	
	D	BP	N/A	/	
	В	BP	N/A	/	
	D	EHP	N/A	/	



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443230510-00
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
	Cr	(Cr^{6+})	BL	/	
12	D.,	PBBs		/	
13	Br	PBDEs	N/A	/	Conformity
	D	DIBP	N/A	/	
	Ι	OBP	N/A	/	
	H	BBP	N/A	/	
	D	EHP	N/A	/	
		Pb	BL	/	
Γ		Cd	BL	/	
		Hg	BL	/	
	Cr	(Cr^{6+})	BL	/	
14	D	PBBs	DI	/	
14	Br	PBDEs	BL	/	Conformity
-	DIBP		N/A	N.D.	
-	DBP		N/A	N.D.	
-	BBP		N/A	N.D.	
-	DEHP		N/A	N.D.	
	Pb		BL	/	
	Cd		BL	/	
	Hg		BL	/	
	Cr(Cr ⁶⁺)		BL	/	
15	Br	PBBs PBDEs	BL	/	Conformity
-	Γ	DIBP	N/A	N.D.	
-		DBP	N/A	N.D.	
_		BBP	N/A	N.D.	
_	DEHP		N/A	N.D.	
		Pb	BL	/	
-		Cd	BL	/	
-	Hg		BL	/	
		(Cr^{6+})	IN	N.D.	
F		PBBs		/	
16	Br	PBDEs	N/A	/	Conformity
	Г	DIBP	N/A	/	
F		DBP	N/A N/A	/	
F		BBP	N/A N/A	/	
		EHP	N/A N/A	/	



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443230510-(Conclusion
		Pb	IN	N.D.	
		Cd	BL	/	
		Hg	BL	/	
	Cr	(Cr ⁶⁺)	IN	N.D.	
17	Br	PBBs	N/A	/	Conformity
1 /	DI	PBDEs		/	Comoninity
	Ε	DIBP	N/A	/	
	Ι	OBP	N/A	/	
	I	BBP	N/A	/	
	D	EHP	N/A	/	
		Pb	IN	23552	
		Cd	BL	/	
		Hg	BL	/	
	Cr	(Cr^{6+})	IN	N.D.	
18	Br	PBBs	N/A	/	Conformity Exemption clause 6(c)
10		PBDEs	IN/A	/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
	Pb		IN	26683	
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
19	Br	PBBs PBDEs	N/A	/	Conformity Exemption
-	DIBP		N/A	/	clause 6(c)
-		OBP	N/A	/	
F		BBP	N/A	/	
F	DEHP		N/A N/A	/	
		Pb	BL	/	
F		Cd	BL	/	
-		Hg	BL	/	
		(Cr ⁶⁺)	BL	/	
		PBBs		/	
20	Br	PBDEs	BL	/	Conformity
F	Γ	DIBP	N/A	N.D.	
F		OBP	N/A	N.D.	
F		3BP	N/A	N.D.	
F		EHP	N/A	N.D.	



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443230510-00
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
	Cr	(Cr^{6+})	BL	/	
21	Br	PBBs	BL	/	Conformity
-		PBDEs		/	
F		DIBP	N/A	N.D.	
)BP	N/A	N.D.	
		BBP	N/A	N.D.	
		EHP	N/A	N.D.	
Ļ		Pb	BL	/	
Ļ		Cd	BL	/	
		Hg	BL	/	
	Cr	(Cr ⁶⁺)	BL	/	
22	Br	PBBs PBDEs	N/A	/	Conformity
F	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
F	DEHP		N/A	/	
	Pb		BL	/	
	Cd		BL	/	
	Hg		BL	/	
-	Cr(Cr ⁶⁺)		BL	/	
23	Br	PBBs PBDEs	- N/A	/	Conformity
-	Γ	DIBP	N/A	/	
-)BP	N/A N/A	/	
		BBP	N/A	/	
-	DEHP		N/A N/A	/	
		Pb	BL	/	
F		Cd	BL	/	
F		Hg	BL	/	
-		(Cr^{6+})	BL	/	
	Cr	PBBs		/	
24	Br	PBDEs	BL	/	Conformity
F	D	DIBP	N/A	N.D.	
F	Ι	OBP	N/A	N.D.	
F	E	BBP	N/A	N.D.	
		EHP	N/A	N.D.	



Test point	Tes	tItem	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443230510-00	
	Pb		BL	/		
		Cd	BL	/		
]	Hg	BL	/		
	Cr(Cr ⁶⁺)	BL	/		
25	Л	PBBs	DI	/		
25	Br	PBDEs	BL	/	Conformity	
	D	IBP	N/A	N.D.		
	Γ	BP	N/A	N.D.		
	E	BP	N/A	N.D.		
	D	EHP	N/A	N.D.		
		Pb	BL	/		
		Cd	BL	/		
]	Hg	BL	/		
		Cr ⁶⁺)	IN	N.D.		
	5	PBBs	- N/A -	/	Conformity	
26	Br	PBDEs		/		
	DIBP		N/A	/		
	DBP		N/A	/		
	BBP		N/A	/		
	DEHP		N/A	/		
		Pb	BL	/		
	Cd		BL	/		
	Hg		BL	/		
	Cr(Cr ⁶⁺)		BL	/		
27	Br	PBBs PBDEs	BL	/	Conformity	
F	D	IBP	N/A	N.D.		
F		BP	N/A	N.D.		
F		BP	N/A	N.D.		
F	DEHP		N/A	N.D.		
		Pb	BL	/		
-	Cd		BL	/		
-		Hg	BL	/		
-		Cr^{6+}	BL	/		
		PBBs		/		
28	Br	PBDEs	N/A	/	Conformity	
Ļ		IBP	N/A	/		
Ļ		BP	N/A	/		
Ļ		BP	N/A	/		
	D	EHP	N/A	/		



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion	
	Pb		BL	/		
		Cd	BL	/		
		Hg	BL	/		
	Cr	(Cr ⁶⁺)	BL	/		
29	Br	PBBs	BL	/	Conformity	
2)	DI	PBDEs	DL	/	Comoninty	
	Ľ	DIBP	N/A	N.D.		
	Ι	OBP	N/A	N.D.		
	I	BBP	N/A	N.D.		
	D	EHP	N/A	N.D.		
		Pb	BL	/		
		Cd	BL	/		
		Hg	BL	/		
	Cr	(Cr^{6+})	BL	/		
30	Br	PBBs	- N/A	/	Conformity	
50	Br	PBDEs	IN/A	/	Comoninty	
	DIBP		N/A	/		
	DBP		N/A	/		
	BBP		N/A	/		
	DEHP		N/A	/		
	Pb		BL	/		
	Cd		BL	/		
	Hg		BL	/		
	$Cr(Cr^{6+})$		BL	/		
31	Br	PBBs PBDEs	BL	/	Conformity	
	Γ	DIBP	N/A	N.D.		
	Ι	OBP	N/A	N.D.		
	Η	BBP	N/A	N.D.		
	D	EHP	N/A	N.D.		
		Pb	BL	/		
F		Cd	BL	/		
		Hg	BL	/		
32		(Cr ⁶⁺)	BL	/		
	Br	PBBs	BL	/	Conformity	
		PBDEs		/	Comorniny	
F		DIBP	N/A	N.D.		
		OBP	N/A	N.D.		
		BBP	N/A	N.D.		
	D	EHP	N/A	N.D.		



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion	
	Pb		BL	/		
Γ		Cd	BL	/	-	
]	Hg	BL	/		
F	Cr	(Cr^{6+})	BL	/		
22		PBBs		/	Conformitor	
33	Br	PBDEs	N/A	/	Conformity	
Γ	D	IBP	N/A	/		
Γ	Γ	DBP	N/A	/		
	E	BBP	N/A	/		
	D	EHP	N/A	/		
		Pb	BL	/		
		Cd	BL	/		
]	Hg	BL	/		
	Cr	(Cr^{6+})	BL	/		
24	PBBs		27/1	/		
34	Br	PBDEs	N/A	/	Conformity	
	DIBP		N/A	/		
	DBP		N/A	/		
	BBP		N/A	/		
	DEHP		N/A	/		
	Pb		BL	/		
	Cd		BL	/	-	
-	Hg		BL	/		
-	Cr(Cr ⁶⁺)		BL	/	1	
25	PBBs		DI	N.D.		
35	Br	PBDEs	IN	N.D.	Conformity	
-	D	IBP	N/A	N.D.	-	
	Γ	DBP	N/A	N.D.		
	E	BBP	N/A	N.D.		
-	DEHP		N/A	N.D.	1	
		Pb	IN	21998		
-		Cd	IN	36	1	
-]	Hg	BL	/		
		(Cr ⁶⁺)	BL	/		
26		PBBs		/	Conformity	
36	Br	PBDEs	N/A	/	Exemption	
F	D	IBP	N/A	/	clause $6(c)+6(c)$	
F		DBP	N/A	/	1	
F		BP	N/A	/	1	
F		EHP	N/A	/	1	



Test point	Tes	t Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Cost43230510-00	
	Pb		BL	/		
		Cd	BL	/		
		Hg	BL	/		
	Cr	(Cr^{6+})	IN	N.D.		
37	Br	PBBs PBDEs	N/A	/	Conformity	
	Г	OIBP	N/A	/		
_)BP	N/A	/		
F		BBP	N/A	/		
F		EHP	N/A	/		
		Pb	BL	/		
		Cd	BL	/		
		Hg	BL	/		
		(Cr^{6+})	BL	/		
-		PBBs		/		
38	Br	PBDEs	BL	/	Conformity	
	DIBP		N/A	N.D.		
	DBP		N/A	N.D.		
	BBP		N/A	N.D.		
	DEHP		N/A	N.D.		
	Pb		IN	21071		
	Cd		BL	/		
	Hg		BL	/		
	Cr(Cr ⁶⁺)		IN	N.D.	Conformity	
39	Br	PBBs PBDEs	N/A	/	Conformity Exemption	
	D	DIBP	N/A	/	clause 6(c)	
	Ι)BP	N/A	/		
	E	BBP	N/A	/		
	D	EHP	N/A	/		
		Pb	IN	23121		
		Cd	BL	/		
		Hg	BL	/		
	Cr	(Cr^{6+})	BL	/		
10		PBBs		/	Conformity	
40	Br	PBDEs	N/A	/	Exemption clause 6(c)	
	D	IBP	N/A	/		
	Ι	DBP	N/A	/		
	E	BBP	N/A	/		
	D	EHP	N/A	/		



Test point	Test Item		Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
		Pb	BL	/			
		Cd	BL	/			
	Hg		BL	/			
	$Cr(Cr^{6+})$		IN	N.D.			
41	Br	PBBs	N/A	/	Conformity		
41		PBDEs	IN/A	/	Comorninty		
	DIBP		N/A	/			
	DBP		N/A	/			
	E	BP	N/A	/			
	D	EHP	N/A	/			

Remark: Test result of DIBP, DBP, BBP, DEHP on specimen No.14 was resubmitted on Jun.05, 2023.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>N/A</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	N/A	BL≤250-3σ <x< td=""></x<>

Remark:

- (1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- (2) Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value.
- (3) The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) Boiling-water-extraction:(X represents the results of the tested sample)

Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	X<0.1µg/cm ²	Negative
2	$0.1\mu g/cm^2 \le X \le 0.13\mu g/cm^2$	Uncertainty
3	$X > 0.13 \mu g/cm^2$	Positive

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).



Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

(5) Disclaimers: This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

Exemption clause	Exemption
6(c)	Copper alloy containing up to 4 % lead by weight

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
Test Item(s)	Unit	Liiiit	WIDL	1-1	1-2
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.
Со	nclusion			Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
Test Itelli(s)	Unit	Lillin	WIDL	1-3	1-4
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.
C	onclusion			Conformity	Conformity

Remark:

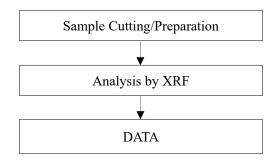
1. As specified by client, the submitted samples were mixed to test, the test points: 1-3,1-4



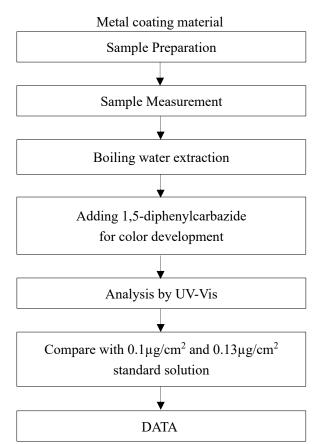
Report No.: AGC05443230510-001 Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤1	<i>≤</i> 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	<i>≤</i> 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤10	/	/

Test Flow Chart of XRF



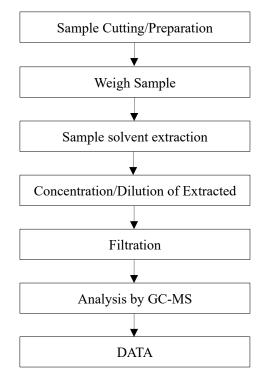




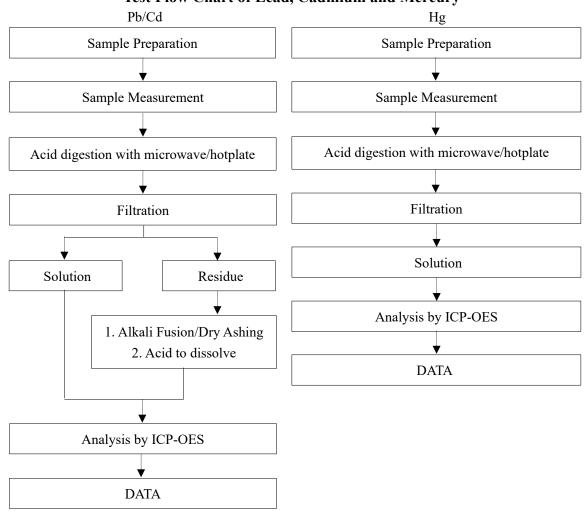
Test Flow Chart of Hexavalent Chromium (Cr⁶⁺)



Test Flow Chart of PBBs and PBDEs





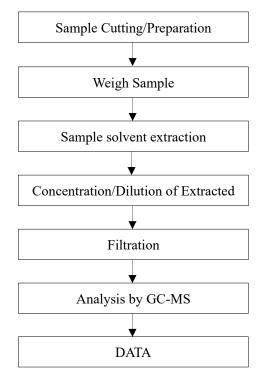


Test Flow Chart of Lead, Cadmium and Mercury

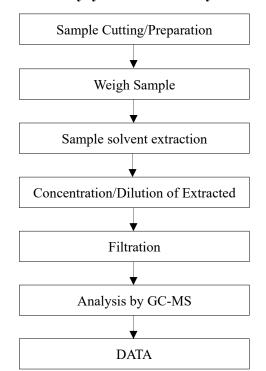
These sample were dissolved totally by pre-conditioning method according to above flow chart



Test Flow Chart of Phthalates







Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

*** End of Report ***