Test Report

Sample Name:	VALVE REGULATED SEALED LEAD-ACID BATTERY
Sample model:	FFD115-12
Applicant:	Fullriver Battery Group (HK) Ltd
Report date:	May,21,2025

Fujian Berton Testing Service Co., Ltd

Fujian Berton Testing Service Co., Ltd APPROVED

1/F., Building 2, No.23, Xinye Road, Wuping, Longyan, Fujian, China
Certificate Search: Tel: 4001688361, E-mail: Tony@fj-berton.com, http://www.fj-berton.com

a3iq1j1 7NxgahY

Test Report

Standard(s)	Selected test (s) in the selected parts as requested by client with the RoHS 2.0 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.

CLIENT INFORMATION:

Testing Laboratory name	Fujian Berton Testing Service Co., Ltd
Address of Laboratory	1/F., Building 2, No.23, Xinye Road, Wuping, Longyan, Fujian, China
Applicant	Fullriver Battery Group (HK) Ltd
Address of Applicant	Suite E, 22nd Floor, Ford Glory Plaza, No. 37 Wing Hong Street Lai Chi Kok, Kowloon, Hong Kong
Manufacturer	HENG LI (VIETNAM) TECHNOLOGY BATTERY CO., LTD
Address of Manufacture	NO.4 ROAD, NHON TRACH 3 INDUSTRIAL PARK - PHASE 2, LONG THO COMMUNE, NHON TRACH DISTRICT, DONG NAI PROVINCE, VIET NAM

SAMPLEINFORMATION:

Sample Name	VALVE REGULATED SEALED LEAD-ACID BATTERY
Trademark	/
Sample Model	FFD115-12
Additional model	FFD1150-2，FFD220-6，FFD224-6，FFD245-6，FFD250-6，FFD335-6，FFD400-6，FFD160-8，FFD180-8，FFD200-8，FFD35-12，FFD55-12，FFD85-12， FFD100-12， FFD105-12， FFD115-12， FFD140-12，FFD150-12，FFD160-12，FFD210-12，FFD210-12B，FFD215-12，FFD260-12，FFD260-12B
Testing Period:	May,13,2025～May,21,2025

OVERALL RESULT:

Test Result(S)	PASS

Approved by: Chen Liang **Reviewed by:** Gina **Tested by:** Leo

Fujian Berton Testing Service Co., Ltd APPROVED

Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2014	ICP-OES	mg/kg	100	3
Lead(Pb)	IEC 62321-5:2014	ICP-OES	mg/kg	1000	3
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	3
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	$\mu g/cm^2$	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

Sample Description:

No.	Description	Name
1	ABS/black, blue	Shell
2	AGM /white	Seperator
3	Copper/silver	Terminal
4	Epoxy resin/black, red, yellow	Glue
5	Lead-Alloy/yellow	Plate
6	Plastic/white	Rope handle
7	Rubber/ black	Safety valve
8	Sulfuric acid/lucid	Acid
9	Rubber/ black	O ring
10	Plastic/white	Protective sleeve

Test Result

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	N.D.
PBDEs	N.D.	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	N.D.

Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

Note: 1. mg/kg= ppm

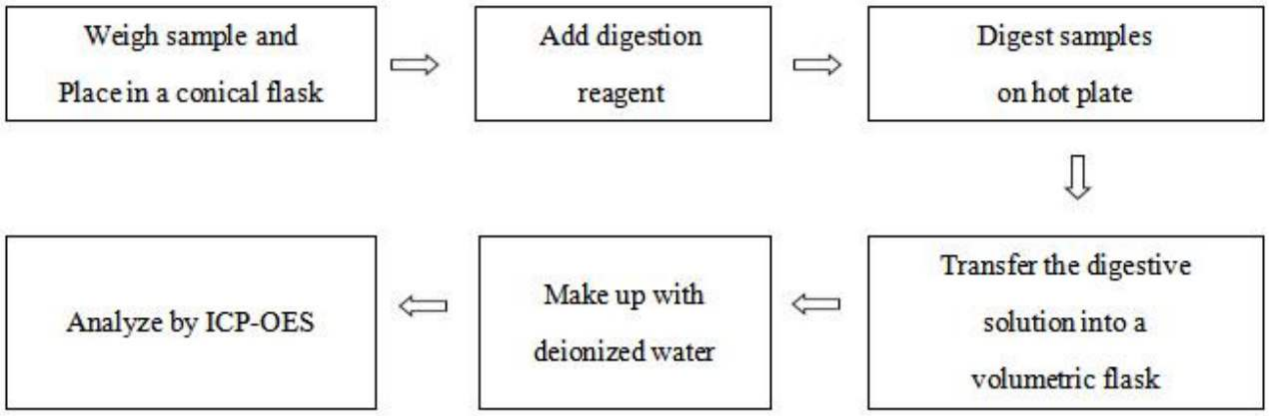
2. N.D.= Not Detected(<MDL)

3. MDL = Method Detection Limit

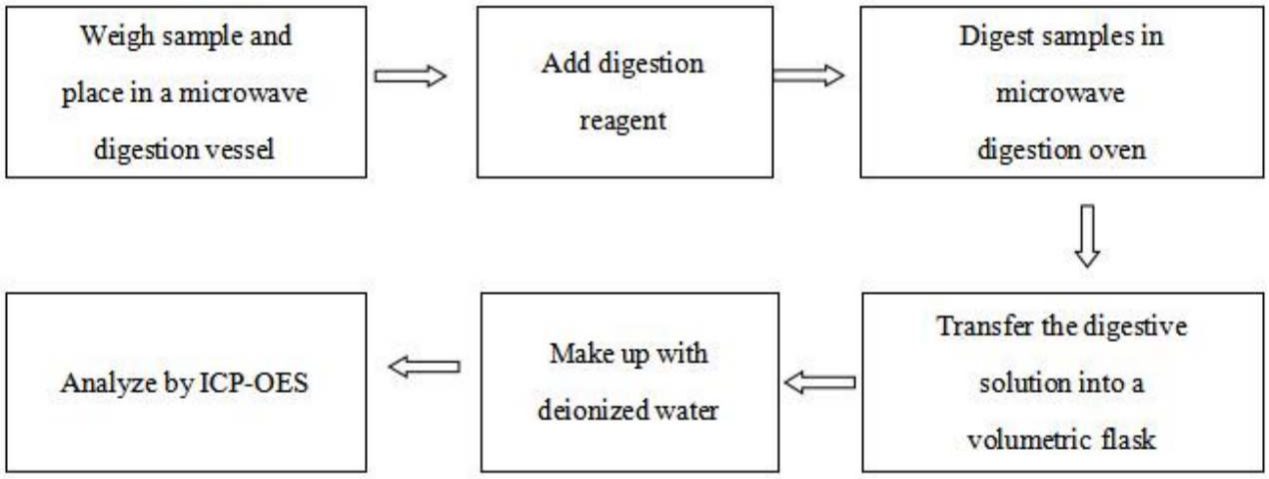
4. -- = No Testing

when Cr(VI) in a sample is detected below the 0.10 μg/cm^2 LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch,a "grey zone" between 0.10 μg/cm^2 and 0.29 μg/cm^2 has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.29 μg/cm^2, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing

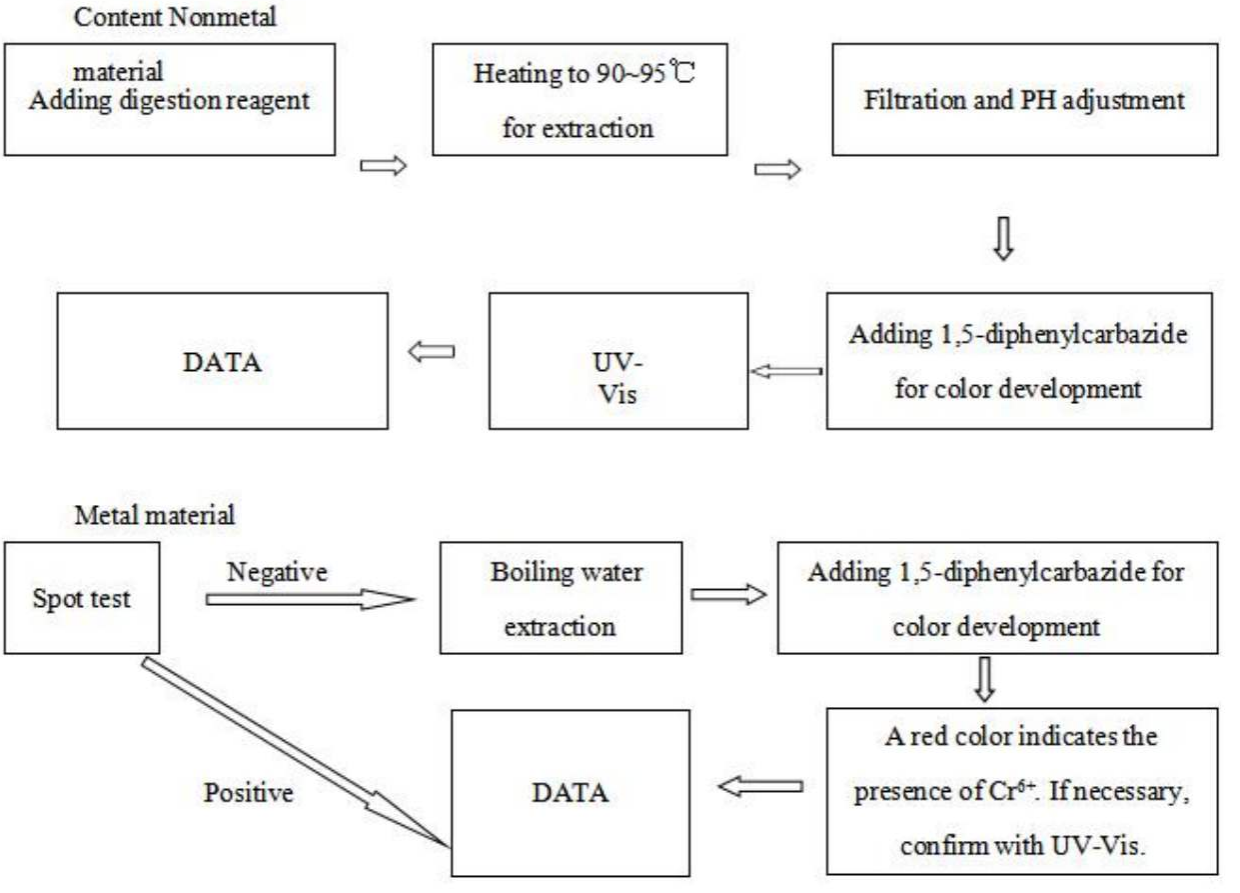
Test Process:



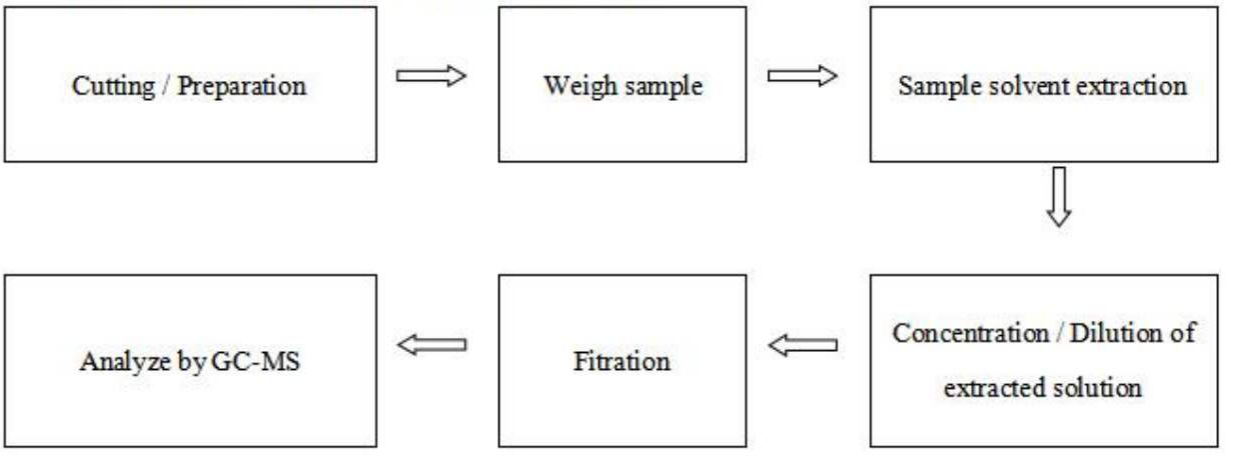
2. Test for Hg Content



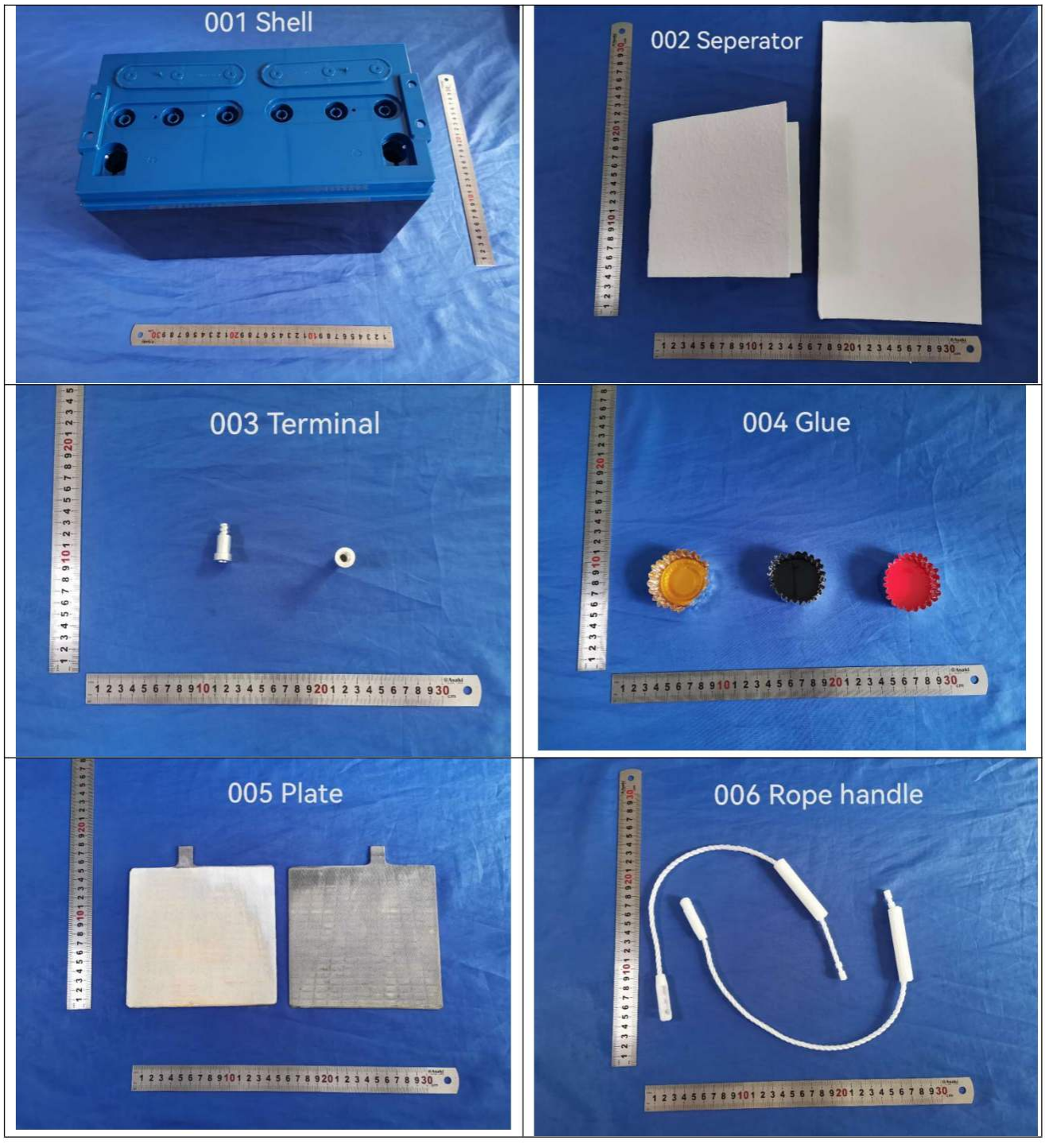
Test for Chromium (VI)

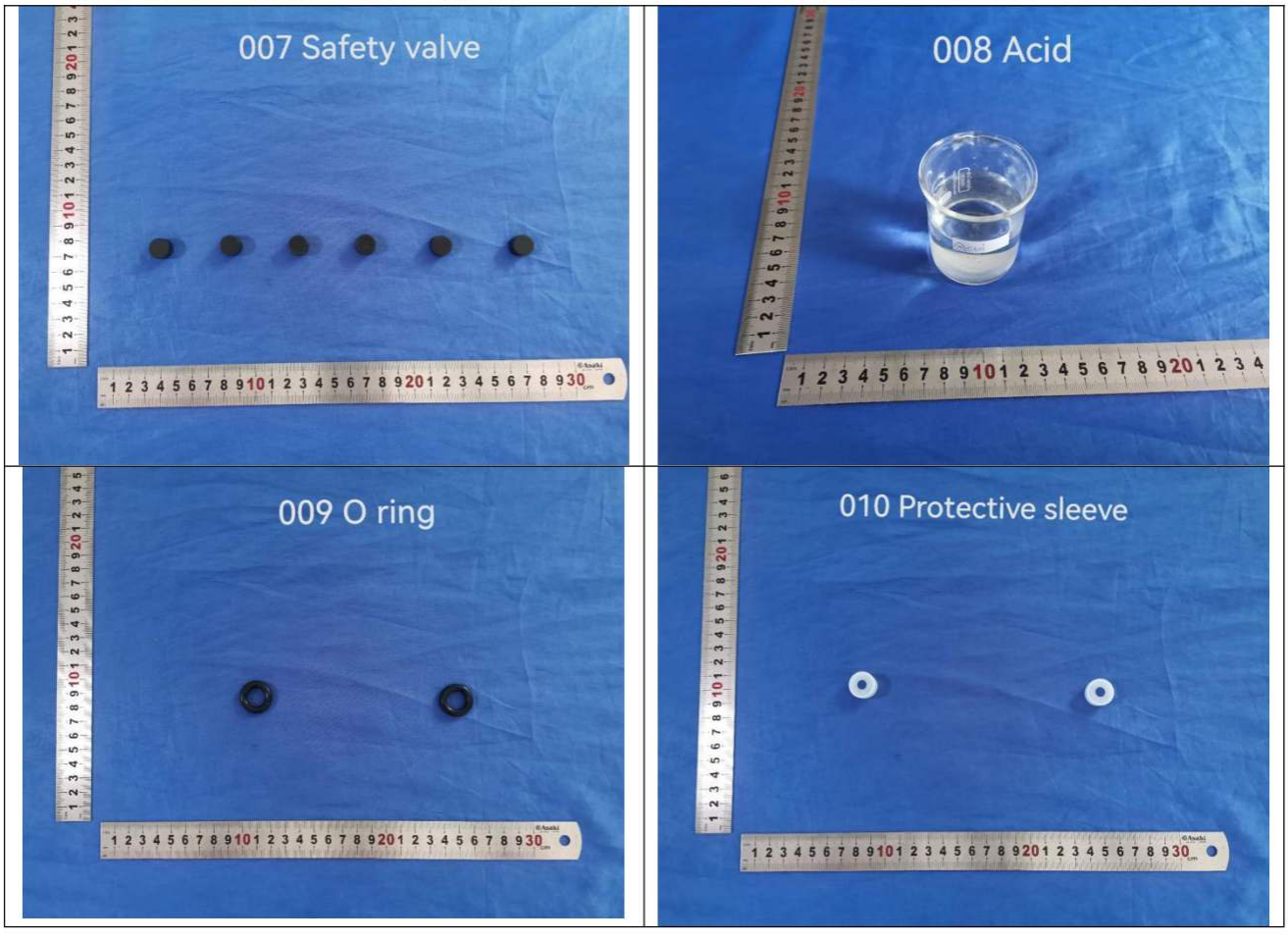


4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



Appearance of the Product





*** End of Report ***