

Test Report

NTS2509108R

Date: Sept.18, 2025

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Applicant : Tianchang Hongwei Instrument Co., Ltd
Address : Guangming Village, Tongcheng Town, Tianchang City, Anhui Province
Manufacturer : Tianchang Hongwei Instrument Co., Ltd
Address : Guangming Village, Tongcheng Town, Tianchang City, Anhui Province

The following sample(s) was/were submitted and identified on behalf of the clients as :Mann temperature sensor

Model No. :HW.TR-36P(B)

Client Ref. Info.: N/A

Trade mark: Anhui Hongwei

Date of Sample Received : Sept.13, 2025
Testing Period : Sept.13, 2025- Sept.18, 2025
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).
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), DEHP, BBP, DBP, DIBP comply with the limits as set RoHS Directive 2011/65/EU and its amendment directive 2015/863/EU.

Signed for and on behalf of
Shenzhen NOWD Testing Services Co., Ltd.

Jeremy Xie
Approved Signatory



Restriction of Hazardous Substances Directive (RoHS), (EU) 2015/863 & 2011/65/EU

List of Analytes and their Corresponding Test Methods [European Council Directive (EU) 2015/863 & 2011/65/EU] :

Name of Analytes		Test Method(s)
Pb	Lead (Pb)	With reference to IEC 62321-3-1:2013; by ICP-OES.
Cd	Cadmium (Cd)	
Hg	Mercury (Hg)	With reference to IEC 62321-4:2013+ A1:2017; by ICP-OES.
Cr⁶⁺	Chromium VI (Cr VI)	<u>Metal</u> : With reference to IEC 62321-5:2013. <u>Polymers & Electronics</u> : With reference to IEC 62321-7-1:2015; IEC 62321-7-2:2017. using UV-Vis.
PBBs	Polybrominated Biphenyls (Sum of PBBs)	With reference to IEC 62321-6:2015, by GC-MS.
	Bromobiphenyls	
	Dibromobiphenyls	
	Tribromobiphenyls	
	Tetrabromobiphenyls	
	Pentabromobiphenyls	
	Hexabromobiphenyls	
	Heptabromobiphenyls	
	Octabromobiphenyls	
	Nonabromobiphenyls	
	Decabromobiphenyl	
PBDEs	Polybrominated Diphenyl Ethers (Sum of PBDEs)	
	Bromodiphenyl ethers	
	Dibromodiphenyl ethers	
	Tribromodiphenyl ethers	
	Tetrabromodiphenyl ethers	
	Pentabromodiphenyl ethers	
	Hexabromodiphenyl ethers	
	Heptabromodiphenyl ethers	
	Octabromodiphenyl ethers	
	Nonabromodiphenyl ethers	
	Decabromodiphenyl ether	



List of Analytes and their Corresponding Test Methods [European Council Directive (EU) 2015/863 & 2011/65/EU] :

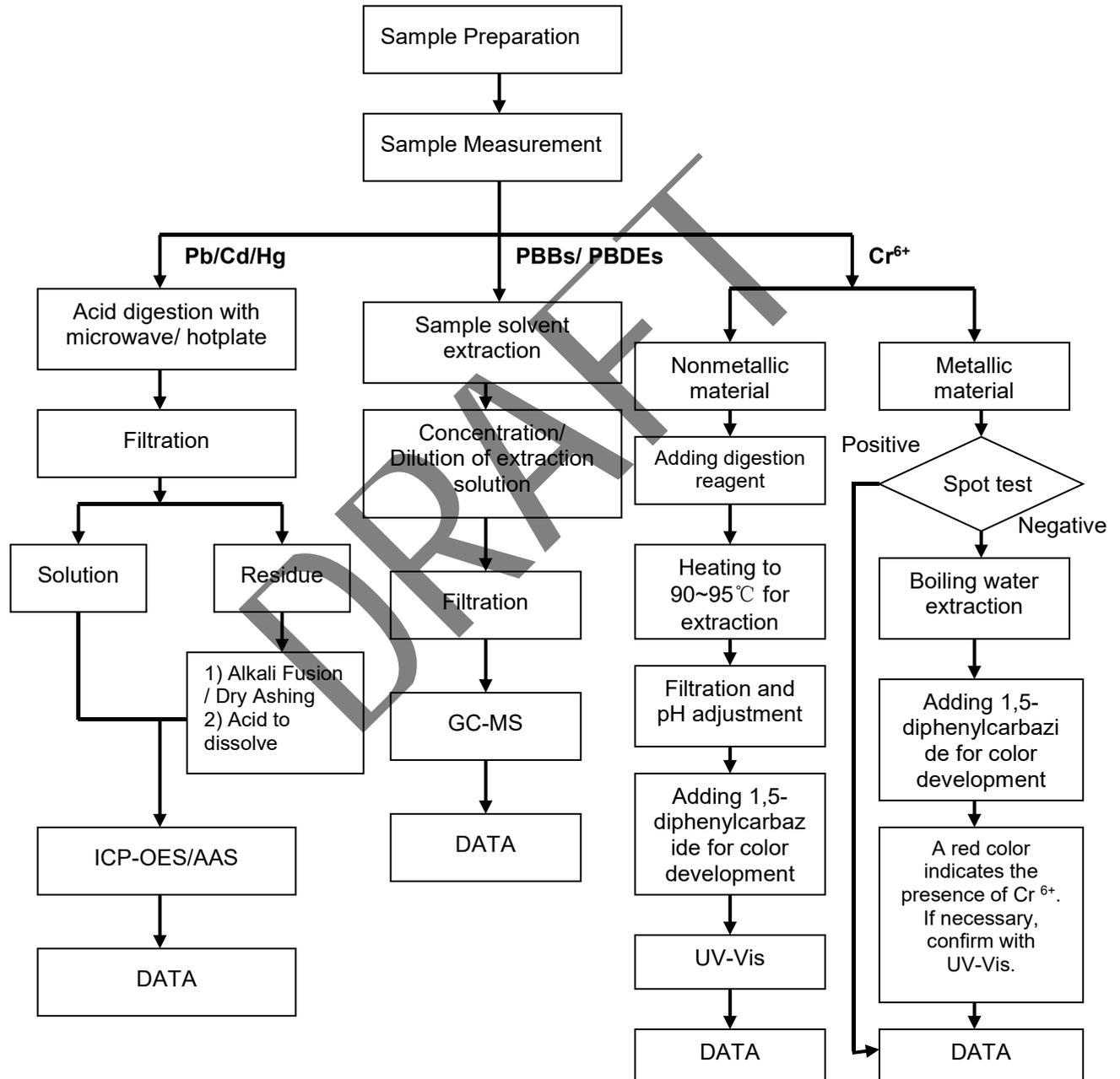
Name of Analytes		Test Method(s)
Phthalate	Bis-(2-ethylhexyl) Phthalate (DEHP)	With reference to IEC 62321-8:2017. by GC-MS
	Benzylbutyl Phthalate (BBP)	
	Dibutyl Phthalate (DBP)	
	Diisobutyl phthalate (DIBP)	

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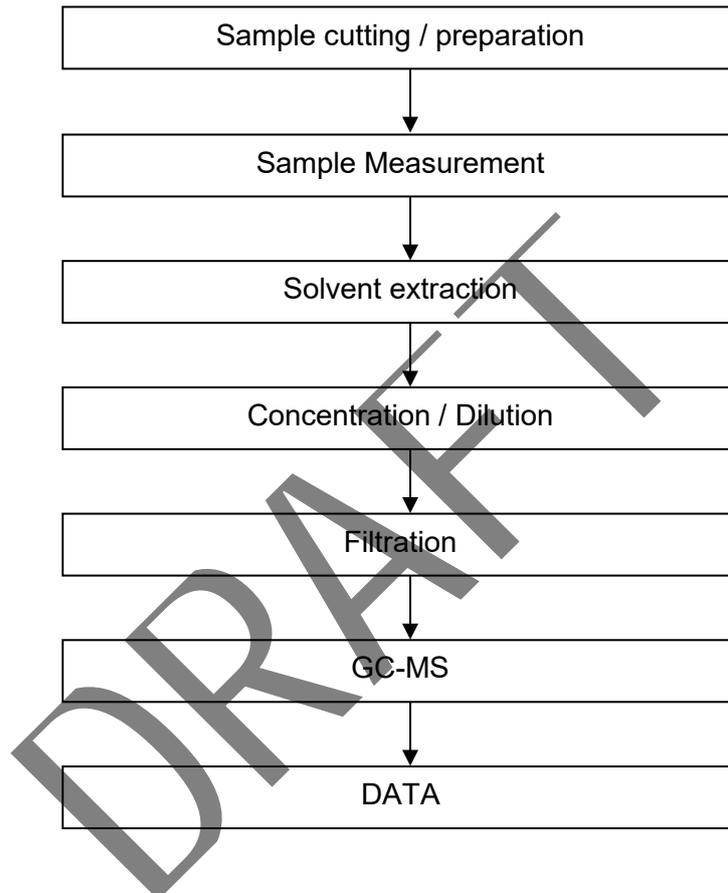
RoHS Testing Flow Chart

- 1) Name of the person who made testing: Vito Ma
- 2) Name of the person in charge of testing: Sienna Cao
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/ PBDEs test method excluded).



Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Vito Ma
- 2) Name of the person in charge of testing: Sienna Cao



<u>Test project</u>	<u>unit</u>	<u>limit</u>	<u>MDL</u>
Cadmium (Cd)	mg/kg	1000	2
Lead (Pb)	mg/kg	1000	2
Mercury (Hg)	mg/kg	1000	2
Hexavalent Chromium (Cr(VI))	mg/kg	1000	2
Polybrominated biphenyls (PBBs)	mg/kg	1000	-
Bromobiphenyls	mg/kg	--	5
Dibromobiphenyls	mg/kg	--	5
Tribromobiphenyls	mg/kg	--	5
Tetrabromobiphenyls	mg/kg	--	5
Pentabromobiphenyls	mg/kg	--	5
Hexabromobiphenyls	mg/kg	--	5
Heptabromobiphenyls	mg/kg	--	5
Octabromobiphenyls	mg/kg	--	5
Nonabromobiphenyls	mg/kg	--	5
Decabromobiphenyl	mg/kg	--	5
<u>Test project</u>	<u>unit</u>	<u>limit</u>	<u>MDL</u>
Polybrominate ddiphenylethers (PBDEs)	mg/kg	1000	-
Bromodiphenyl ethers	mg/kg	--	5
Dibromodiphenyl ethers	mg/kg	--	5
Tribromodiphenyl ethers	mg/kg	--	5
Tetrabromodiphenyl ethers	mg/kg	--	5
Pentabromodiphenyl ethers	mg/kg	--	5
Hexabromodiphenyl ethers	mg/kg	--	5
Heptabromodiphenyl ethers	mg/kg	--	5
Octabromodiphenyl ethers	mg/kg	--	5
Nonabromodiphenyl ethers	mg/kg	--	5
Decabromodiphenyl ether	mg/kg	--	5
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	1000	-
Benzyl-n-butyl phthalate (BBP)	mg/kg	1000	-
Di-n-butyl phthalate (DBP)	mg/kg	1000	-
Di-iso-butyl phthalate (DIBP)	mg/kg	1000	-



Test Result

Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
1	Silvery metal screw	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
2	Black plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P
3	Black plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P
4	Black plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P



Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
5	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
6	Solder	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
7	Copper metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
8	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P



Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
9	Black soft plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P
10	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
11	Silvery metal screw	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
12	Translucent plastic (wire insulation)	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P



Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
13	Silvery wire	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
14	Red wire	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
15	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
16	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
DIBP	/	/	P		



Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
17	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
18	Black soft plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P
19	Translucent glue	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P

-mg/kg = milligram per kilogram = ppm

-N.D. = Not detected (<MDL)

-BL=Less than screening limits of XRF

-D = DETECTED = Inconclusive

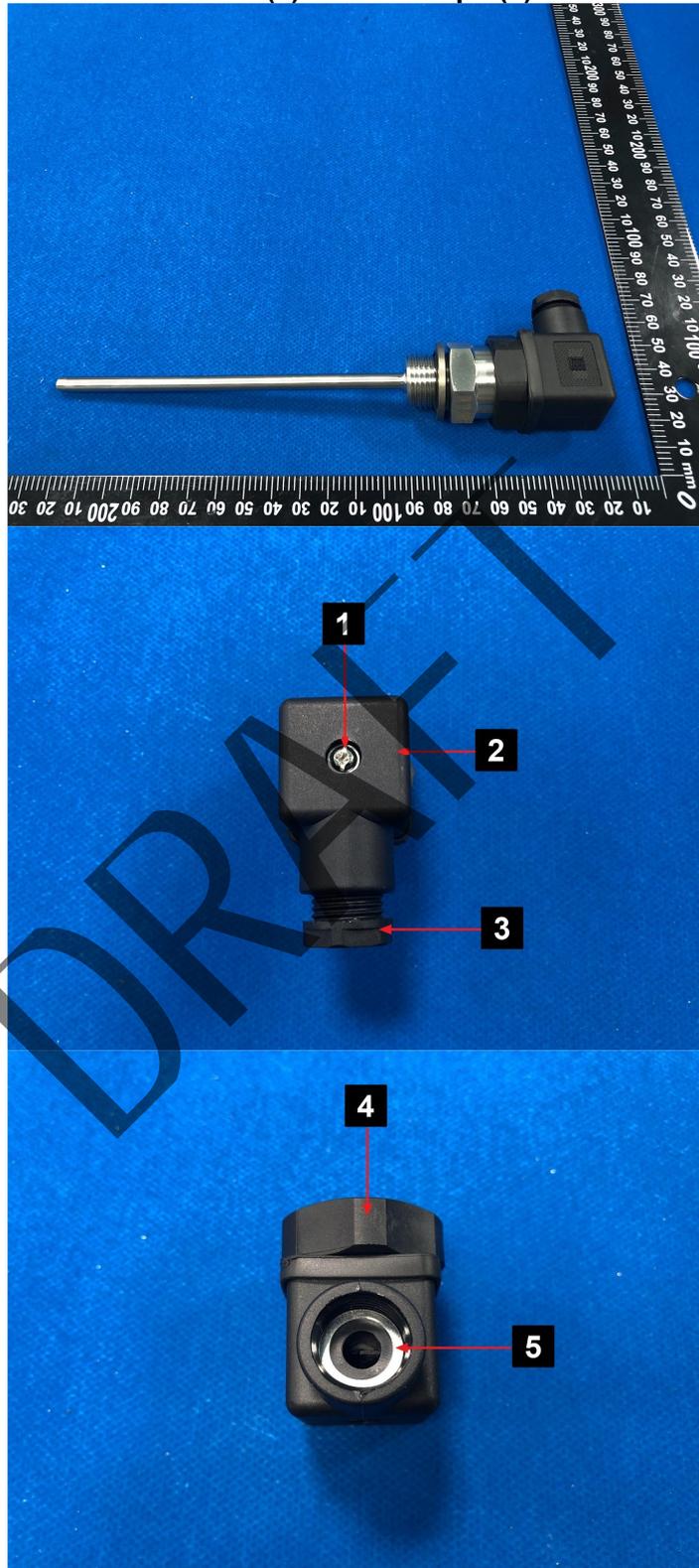
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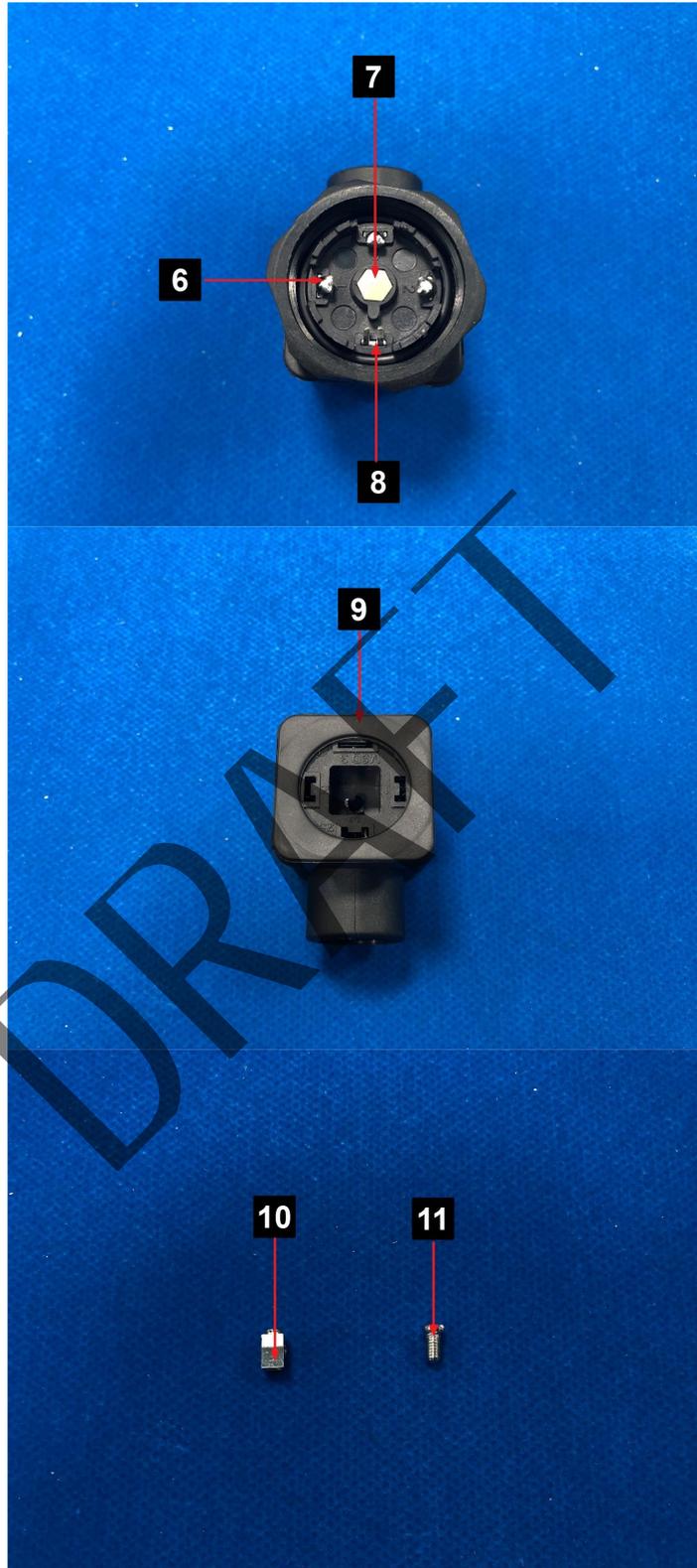
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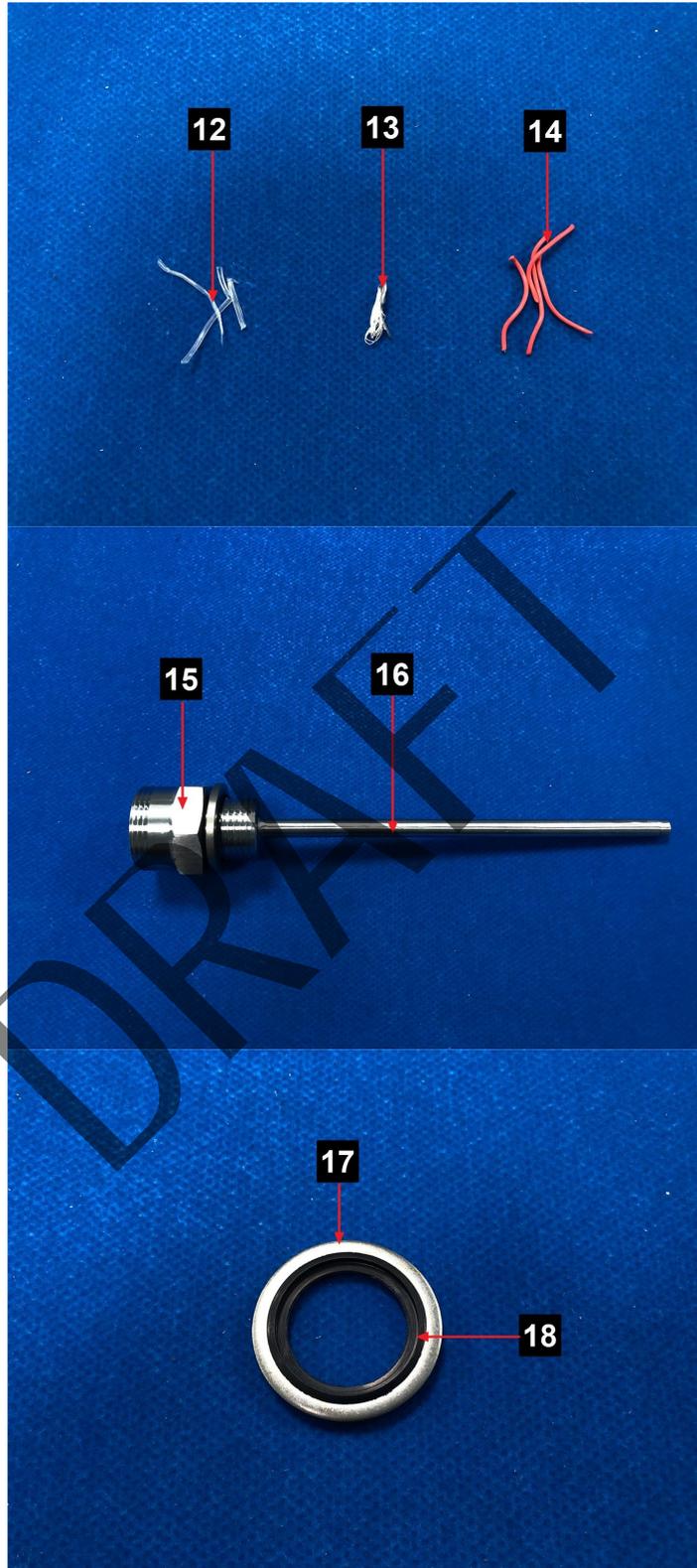
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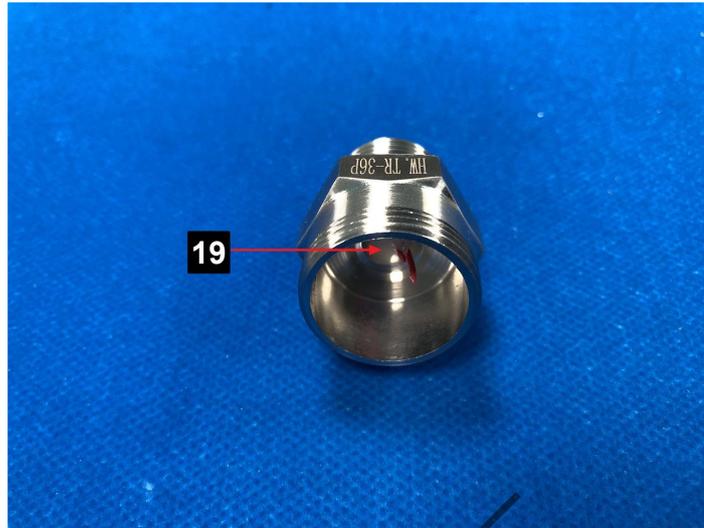


Photo(s) of the sample(s)









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