

**Test Report** No. SHAEC2127949505 Date: 30 Dec 2021 Page 1 of 12

ZHEJIANG BADA COPPER INDUSTRY CO.,LTD
QIANQING TOWN, SHAOXING COUNTY, ZHEJIANG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PHOSPHOR BRONZE

**STRIPS** 

SGS Job No.: SP21-039695 - SH

Model No.: C5191

Date of Sample Received: 21 Dec 2021

Testing Period: 21 Dec 2021 - 24 Dec 2021

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 Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

Approved Signatory





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# **Test Report** No. SHAEC2127949505 Date: 30 Dec 2021 Page 2 of 12

Test Results:

#### **Test Part Description:**

Specimen No. SGS Sample ID Description
SN1 SHA21-279495.003 Copper metal

#### Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL)
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
100	mg/kg	2	ND
1000	mg/kg	2	10
1000	mg/kg	2	ND
-	µg/cm²	0.10	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
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-	mg/kg	5	ND
	100 1000 1000 - 1000 - - - - - - - - -	100 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg - µg/cm² 1000 mg/kg - mg/kg	100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 2 1000 mg/kg 2 - μg/cm² 0.10 1000 mg/kg mg/kg 5 - mg/kg 5



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Test Report	No. SHAEC21279495	9505 Date: 30 Dec 2021		27949505 Date: 30 Dec 2021 Page 3		Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>		
Pentabromodiphenyl ether	-	mg/kg	5	ND		
Hexabromodiphenyl ether	-	mg/kg	5	ND		
Heptabromodiphenyl ether	-	mg/kg	5	ND		
Octabromodiphenyl ether	-	mg/kg	5	ND		
Nonabromodiphenyl ether	-	mg/kg	5	ND		
Decabromodiphenyl ether	-	mg/kg	5	ND		
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND		
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND		
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG ID:1258637,25
- (2) ▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating
  - c. 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(VI) results represent status of the sample at the time of testing.

#### Element(s)

Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND
Beryllium (Be)	mg/kg	5	ND

#### Halogen

Test Method: With reference to EN 14582: 2016, analysis was performed by IC.



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Test Item(s)	<u>Unit</u>	MDL	<u>003</u>		
Fluorine (F)	mg/kg	50	ND		
Chlorine (CI)	mg/kg	50	ND		
Bromine (Br)	mg/kg	50	ND		
lodine (I)	mg/kg	50	ND		

## Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	003
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
PFOS <sup>^</sup>	1763-23-1	mg/kg	10	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	10	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	10	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	10	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	10	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA) and its salts+	-	mg/kg	10	ND

#### Notes:

(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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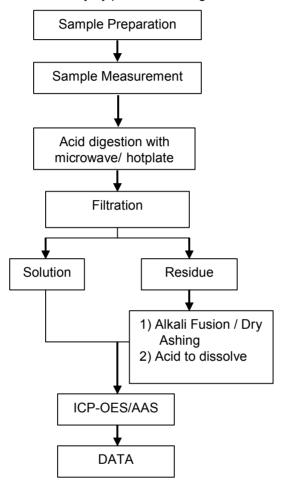
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# **Elements (IEC62321) Testing Flow Chart**

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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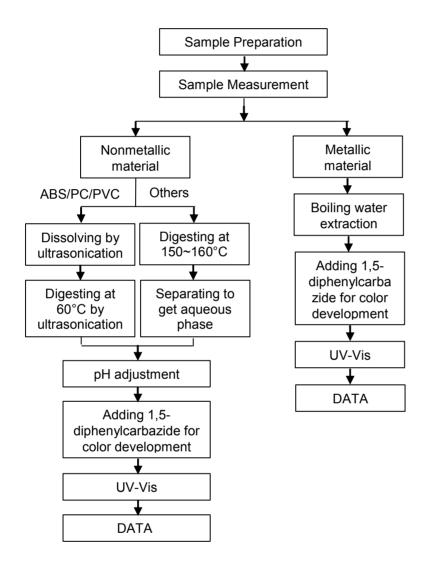
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## Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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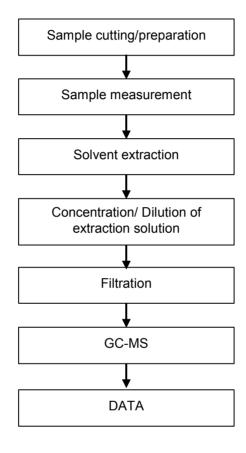
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# PBBs/PBDEs Testing Flow Chart





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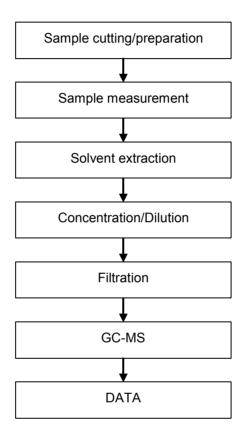
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# **Phthalates Testing Flow Chart**





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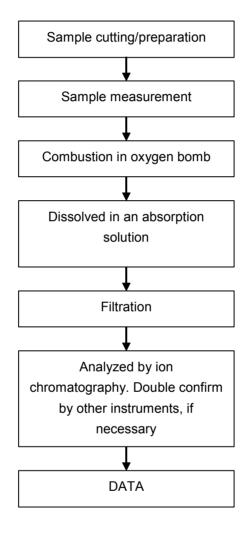
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# Halogen Testing (oxygen bomb) Flow Chart





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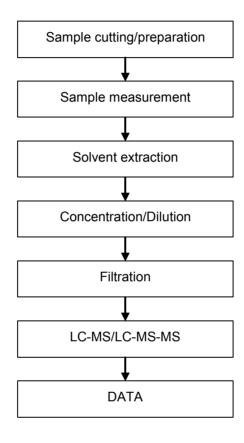
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# PFASs/ PFOS/PFOA Testing Flow Chart





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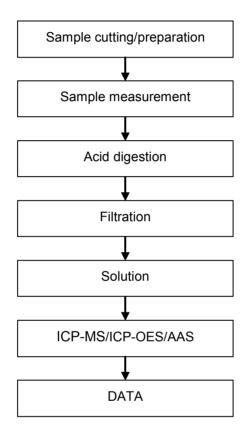
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Date: 30 Dec 2021

# **Elements Testing Flow Chart**





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Sample photo:



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