

# Test Report

No.: NGBEC23004807902

Date: Oct 20, 2023

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Client Name: NINGBO QIAOPU ELECTRIC CO.,LTD.

Client Address: XIAOLUXIA VILLAGE,SIMEN TOWN,YUYAO CITY,ZHEJIANG,CHINA

Sample Name: Plug & Cable

Client Ref. Information: Plug: CY01,CY02,CY03,CY04,CY02-F,CY03-F,CY05A,CY05B,CY06, CY07,D01, D02, D03, D02-F, D03-F, D04,D05A,D05B,D06,D06A,D07,D08,D09,D09A,D12,D13.QT1,QT2,QT3,QZ 3,QT4,QT8  
Cable: H05VV-F, H05VVH2-F, H05V2V2-F, H05V2V2H2-F, H03VV-F, H03VVH2-F,

The above sample(s) and information were provided by the client.

SGS Job No.: NBP23-003368  
Sample Receiving Date: Oct 16, 2023  
Testing Period: Oct 16, 2023 ~ Oct 20, 2023  
Test Requested: Select test(s) as requested by the client.  
Test Method(s): Please refer to next page(s).  
Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Polycyclic Aromatic Hydrocarbons (PAHs)	Pass

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

*Kell Li*

Kell\_Li  
Approved Signatory

scan to see the report



750331DE



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Ningbo Branch Chemical Laboratory

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**Test Result(s):**

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB23-0048079-0001.C001	White plug part
SN2	A2	NGB23-0048079-0001.C002	White wire jacket part

**Remarks:**

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

**Polycyclic Aromatic Hydrocarbons (PAHs)**

**Test Method:** With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Benzo(a)pyrene (BaP)	50-32-8	0.5	mg/kg	0.1	ND	ND
Benzo(e)pyrene (BeP)	192-97-2	0.5	mg/kg	0.1	ND	ND
Benzo(a)anthracene (BaA)	56-55-3	0.5	mg/kg	0.1	ND	ND
Benzo(b)fluoranthene (BbF)	205-99-2	0.5	mg/kg	0.1	ND	ND
Benzo(j)fluoranthene (BjF)	205-82-3	0.5	mg/kg	0.1	ND	ND
Benzo(k)fluoranthene (BkF)	207-08-9	0.5	mg/kg	0.1	ND	ND
Chrysene (CHR)	218-01-9	0.5	mg/kg	0.1	ND	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	0.5	mg/kg	0.1	ND	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	0.5	mg/kg	0.1	ND	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	0.5	mg/kg	0.1	ND	ND
Phenanthrene (PHE)	85-01-8	-	mg/kg	0.1	ND	ND
Pyrene (PYR)	129-00-0	-	mg/kg	0.1	ND	ND
Anthracene (ANT)	120-12-7	-	mg/kg	0.1	ND	ND
Fluoranthene (FLT)	206-44-0	-	mg/kg	0.1	ND	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	10	mg/kg	-	ND	ND
Naphthalene (NAP)	91-20-3	2	mg/kg	0.1	ND	ND
Sum of 15 PAHs	-	10	mg/kg	-	ND	ND
Material Category	-	-	-	-	2	2
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

**Notes:**

As per client information, the tested sample is not children product which is under the directive of German ProdSG.

**AfPS (German commission for Product Safety) : PAHs requirements**

Parameter	Category 1	Category 2	Category 3
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	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum



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Naphthalene (NAP) mg/kg	< 1	< 2	< 10
<b>Sum of 15 PAHs</b>	<1	< 5	< 10

**Notes:**

- <sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.
- <sup>b</sup> Use by children includes both active and passive contact by children.
- <sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
- <sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

**Remark:**

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
Benzo(a)pyrene (BaP)	50-32-8	1	mg/kg	0.1	ND	ND
Benzo(e)pyrene (BeP)	192-97-2	1	mg/kg	0.1	ND	ND
Benzo(a)anthracene (BaA)	56-55-3	1	mg/kg	0.1	ND	ND
Benzo(b)fluoranthene (BbF)	205-99-2	1	mg/kg	0.1	ND	ND
Benzo(j)fluoranthene (BjF)	205-82-3	1	mg/kg	0.1	ND	ND
Benzo(k)fluoranthene (BkF)	207-08-9	1	mg/kg	0.1	ND	ND
Chrysene (CHR)	218-01-9	1	mg/kg	0.1	ND	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	1	mg/kg	0.1	ND	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	1	mg/kg	0.1	ND	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	1	mg/kg	0.1	ND	ND
Phenanthrene (PHE)	85-01-8	-	mg/kg	0.1	ND	ND
Pyrene (PYR)	129-00-0	-	mg/kg	0.1	ND	ND
Anthracene (ANT)	120-12-7	-	mg/kg	0.1	ND	ND
Fluoranthene (FLT)	206-44-0	-	mg/kg	0.1	ND	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	50	mg/kg	-	ND	ND
Naphthalene (NAP)	91-20-3	10	mg/kg	0.1	ND	ND
Sum of 15 PAHs	-	50	mg/kg	-	ND	ND
Material Category	-	-	-	-	3	3
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

**Notes:**

As per client information, the tested sample is not children product which is under the directive of German ProdSG.

**AfPS (German commission for Product Safety) : PAHs requirements**



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Parameter	Category 1	Category 2		Category 3	
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		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
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Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum



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Naphthalene (NAP) mg/kg	< 1	< 2	< 10		
<b>Sum of 15 PAHs</b>	<1	< 5	< 10	< 20	< 50

**Notes:**

- <sup>a</sup> A “Child” is legally defined as a person before reaching the age of 14 years.
- <sup>b</sup> Use by children includes both active and passive contact by children.
- <sup>c</sup> Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
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**Remark:**

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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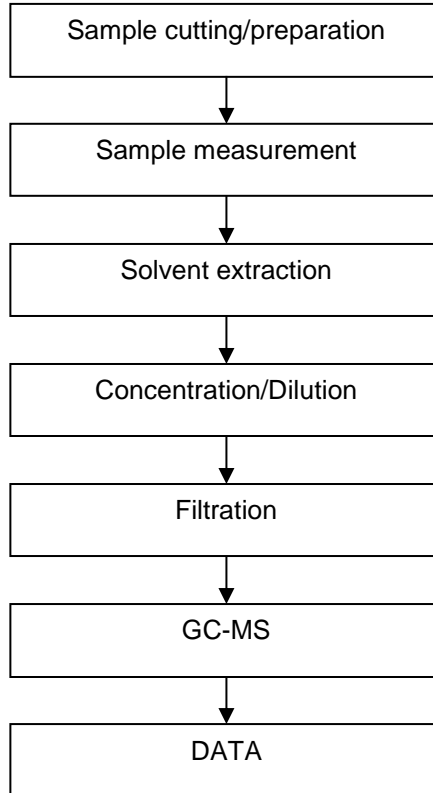
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### PAHs Testing Flow Chart



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