

Test Report

No. TSNEC2200366003 A01

Date: 14 Jun 2022

Page 1 of 10

Client Name : XINGTAI IRON AND STEEL CORP.,LTD

Client Address : 262 GANGTIE ROAD,XINGTAI,HEBEI,CHINA

Sample Name : HOT ROLLED STEEL WIRE RODS

Main Substance : Fe

Model No. : 10B21

Client Ref. Info. : SEE ATTCHMENT:

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

This report is to supersede test report TSNEC2200366001

SGS Job No. : TP22-004541 - TJ

Date of Sample Received : 07 Mar 2022

Testing Period : 07 Mar 2022 - 10 Mar 2022


Test Requested : Selected 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).

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) 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 (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

scan to see the report



FD3224B1



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457

t (86-22) 65288000

www.sgs.com

中国·天津市经济技术开发区第五大街41号SGS大厦

邮编: 300457

t (86-22) 65288000

sgs.china@sgs.com

Test Report

No. TSNEC2200366003 A01

Date: 14 Jun 2022

Page 2 of 10

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN22-003660.001	black 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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457

t (86-22) 65288000 www.sgsgroup.com.cn
t (86-22) 65288000 sgs.china@sgs.com

Test Report

No. TSNEC2200366003 A01

Date: 14 Jun 2022

Page 3 of 10

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</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
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) 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.

This report updates Client Ref. Info.

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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
中国·天津市经济技术开发区第五大街41号SGS大厦

t (86-22) 65288000
t (86-22) 65288000

www.sgs.com
sgs.china@sgs.com

Test Report

No. TSNEC2200366003 A01

Date: 14 Jun 2022

Page 4 of 10

ATTACHMENT:

(XG)SWRCH6-22A	<input type="checkbox"/> XG) SWRCH6AB-22AB	SWRCH6ATi/8ATi/18ATi
SWRCH6AB-Ti	SWRCH18AB-THA	SWRCH22A+Ti
SWRCH22A-Ti	SWRCH6A/10A/12A-P	GSWRCH6A-A(A1)
GSWRCH10A/15A	GSWRCH10A/12A/22A-1	GSWRCH10A/15A/18A/22A-B
SWRCH18A-G	QSWRCH10A/18A/22A	QSWRCH8A/10A/12A/15A/18A/22A-B
QSWRCH10A-C	QSWRCH18AB-B	(XG)SWRCH10-45K
GSWRCH20K/25K/35K/40K/45K	QSWRCH20K/25K/35K/40K/45K	QSWRCH20K/25K/35K/40K/45K-MT
SWRCH35K-P	XGSWRCH45KB	XGSWRCH45KCr
GSWRCH35K-1	GSWRCH35KM	GSWRCH35K-B
QSWRCH35K-B	SWRCH40K-1(QSWRCH40K-C)	QSWRCH45K-B
QSWRCH45K-C	10B21-38	10B33-FY
10B33-FLT	10B21Cr-33Cr	15B25
51B20	SAE10B21	SWRCH10B21
SAE10B35	XG10B21-38	XG10B33M
XG15B21	XG15B25	10B21-1
10B21-P	10B33-P	G10B21
G10B33	G10B21-C	Q10B21-C
Q10B21-K	Q10B21-DW (10B21)	Q10B23M-C
Q15B25M-MT	Q15B25M	Q15B25-B
QSAE10B35-B	(XG)ML20Cr	GML20Cr
GML20Cr-B	QML20Cr	QML20Cr-B
QML20Cr-DF	(XG)ML40Cr	ML40Cr-P
GML40Cr	GML40Cr-A/B	QML40Cr-B
QML40CrH-C	SCM415/420/435/440	SCM435-M
GSCM420/435/440-C	QSCM435/440-C	QSCM435-MT
15-35CrMo	35CrMoA	ML20CrMo
ML42CrMo(A)	GML42CrMo	S15C-45C
XGS15C-45C	GS35C-1	GS45C-1
S45CB	S45CMOD	XGS45C-JC
XGS45CB	(XG)S45C-G	GS25C/35C/45C-A
GS25C/35C/45C-B	QS35C-C	ML08AI
ML08AI-1	ML15AI	HD15
XGML08AI	ML35	GML08AI-B
(XG)ML20MnTiB	ML20MnTiB-B	G/QML20MnTiB-B
SAE1008-1018	SAE1006B-1018B	SAE1006/1008/1010/1018-Ti
GSAE1018	QSAE1018(-B)	QSAE8640-B
(XG)35ACR	WRCH7A (Q40ACR-C)	D106BT
D108BT	C4/8/10C	QC15C-B
1215	1215MS-1	20CrMnTi
30CrMnTi	(G/Q)ML45Mn2	M8
M10	LY1	LY
CH1T	CH1A	DT4
XGYT0	XGYT1	XGM6-1/2/PB
XG295NH	G295NH	XG835NH
50BV30	SAE6150	B7

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457

t (86-22) 65288000

www.sgs.com

中国·天津市经济技术开发区第五大街41号SGS大厦

邮编: 300457

t (86-22) 65288000

sgs.china@sgs.com



Test Report

No. TSNEC2200366003 A01

Date: 14 Jun 2022

Page 5 of 10

16MnCr5	(Q)20MnB4	30MnVS6
40CrMoV	40CrMoV4-6	SNB16
B16	C15E2CM	G33B2-B
MnB120H	MnB123H	QSt32-3
Cq15	Q17Cr3-B	Q37MnB5
Q15MnVB-A	35VB	SCr420B
SCr440	GSWRH67B	FT8
FT9	Q85Mn	GCr15
GCr15-1	GCr15-A	GCr15-DH
GCr15-Y	GCr15-L	GCr15-ZWZ
GCr15-LX	GCr15-LX1	QGCr15
□XG) SWRH72A	XGLX82A	XGLX82A-P
XGLB72/75/82/85A(B)	XGLX72A-1	XGLX72B
55SiCrA(-1)	Q55SiCrA-1(54SiCr6)	60Si2MnA
60Si2CrA	SWRS82B	GSWRH82B-1
HG18	Q215	LL15
S20A	20CrMnTi	30CrMnTi
25MnV	FT8-1	LD22
QS20C-B	(X)ER70S-6	NHF8
9SiCr	20Mn2	SWRH85B-DL
SWRH82BCr	SWRY11	Q195
Q195M	PYML1100	QS45C-C



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457

t (86-22) 65288000

www.sgs.com

中国·天津市经济技术开发区第五大街41号SGS大厦

邮编: 300457

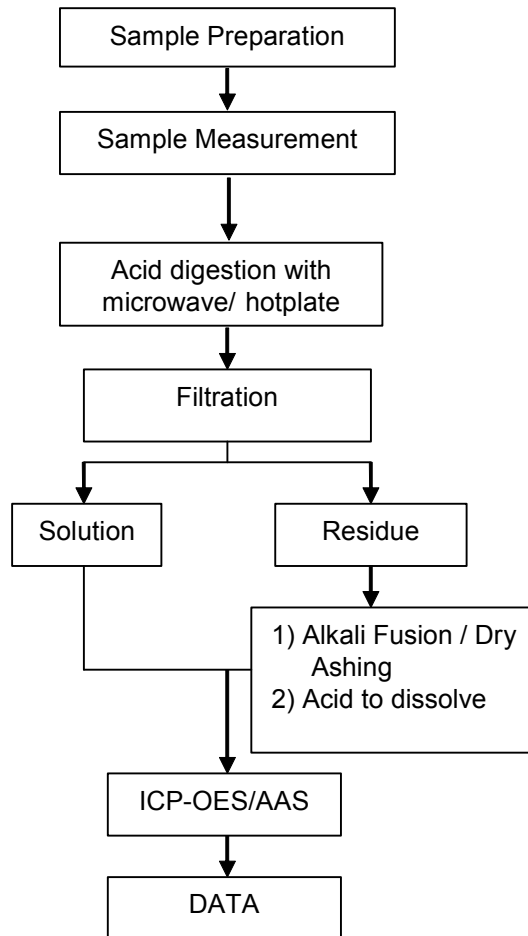
t (86-22) 65288000

sgs.china@sgs.com

ATTACHMENTS

Elements (IEC62321) Testing Flow Chart

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

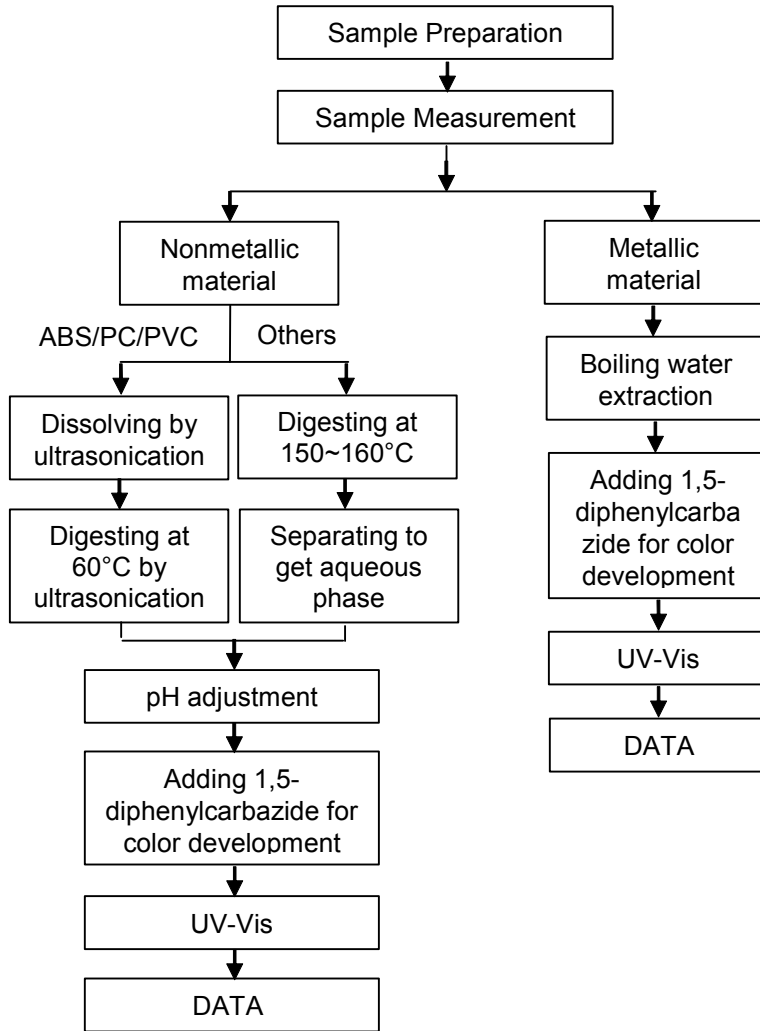
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
 中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457

t (86-22) 65288000 www.sgsgroup.com.cn
 t (86-22) 65288000 sgs.china@sgs.com

ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

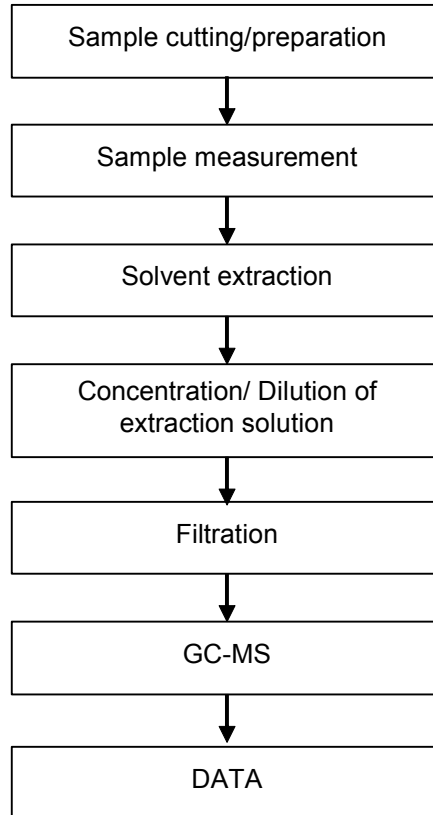
SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
 中国·天津市经济技术开发区第五大街41号SGS大厦

t (86-22) 65288000
 t (86-22) 65288000

www.sgs.com
sgs.china@sgs.com

ATTACHMENTS

Flame Retardants Testing Flow Chart



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

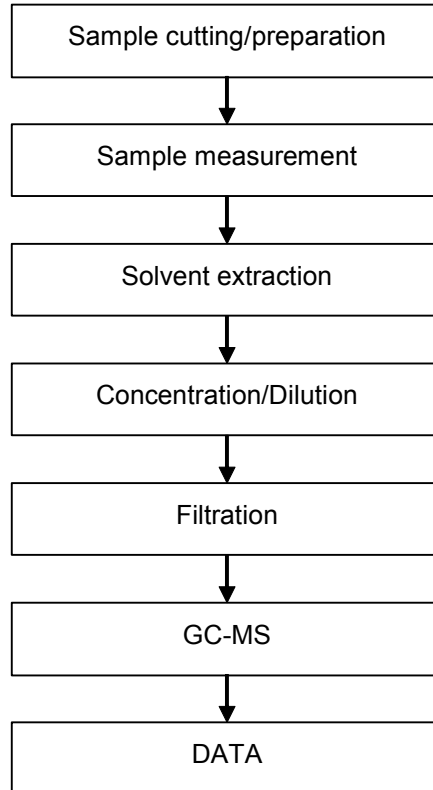
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457

t (86-22) 65288000 www.sgsgroup.com.cn
t (86-22) 65288000 sgs.china@sgs.com

ATTACHMENTS

Phthalates Testing Flow Chart



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
中国·天津市经济技术开发区第五大街41号SGS大厦

t (86-22) 65288000
t (86-22) 65288000
www.sgs.com.cn
sgs.china@sgs.com