TEST REPORT

High corrosion resistance material
Zinc Aluminum Magnesium

FOCUS ON HIGH-QUALITY CABLE TRAY
& SOLAR MOUNTING SYSTEM

广 东 裕 昌 科 技 有 限 公 司
Guangdong Yuchang Technology Co., Ltd.

测试报告

编号 ： TJIN2106008790MR_CN

日期 ： 2021-06-16

scan to see the report

TJIN2106008790MR_CN

客户名称： 甘肃酒钢集团宏兴钢铁股份有限公司

客户地址： 中国甘肃省嘉峪关市雄关东路 12 号

样品名称 ： 酒钢热镀锌铝镁钢板及钢带 Zn-11%Al-3%Mg-0.2%Si-Ni-RE

加工方式 ： A：弯折、B：平板、C：铣槽、D：划叉 E:冲孔

产品规格 ： 2.0mm

镀层重量 ： 275g

镀层类型 ： Zn-11%Al-3%Mg-0.2%Si-Ni-RE

以上信息及样品由客户提供及确认，SGS 不承担证实客户提供信息的准确性、适当性和(或)完整性的责任。

****

SGS 参考号 ： TP20-007407-4

收样日期 ： 2020-10-20

测试开始时间 ： 2020-10-20

测试结束时间 ： 2021-06-16

测试结果 ： 请见下页（除另有特别说明外，此报告结果仅对测试样品负责）

通标标准技术服务（天津）有限公司

授权签名

梁飞飞 授权签字人

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结果总结：

序号	测试项目	测试方法	结果	结论
1	中性盐雾(NSS)试验	ISO 9227:2017	详见结果	/

备注： 合格：达到要求

不合格：未达到要求

/：不下判定

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测试项目：中性盐雾(NSS)试验

样品描述：见照片

测试方法：ISO 9227:2017

测试条件：

沉降盐液浓度：(50±5)g/L NaCl

试验箱温度：(35±2)℃

盐雾沉降率：(1.5±0.5)ml/(80cm²·h)

沉降盐液 pH 值(25±2)℃：6.5~7.2

暴露时间：4500 小时

测试结果：

样品		暴露时间	外观
A	#1	4500h	无红锈
	#2	4500h	无红锈
	#3	4500h	无红锈
B	#1	4500h	无红锈
	#2	4500h	无红锈
	#3	4500h	无红锈
C	#1	4500h	无红锈
	#2	4500h	无红锈
	#3	4500h	无红锈
D	#1	4500h	无红锈
	#2	4500h	无红锈
	#3	4500h	无红锈
E	#1	4500h	无红锈
	#2	4500h	无红锈
	#3	4500h	无红锈

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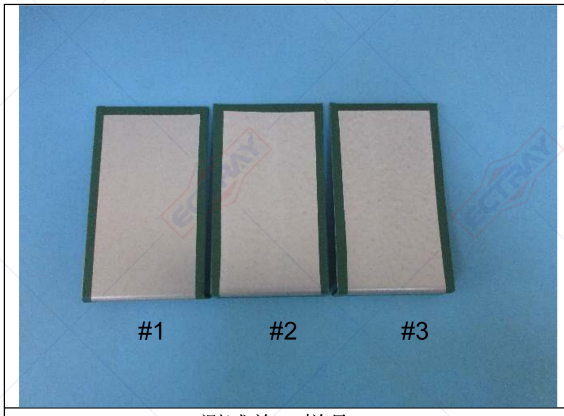
备注：

1. 样品边缘不纳入评价范围。

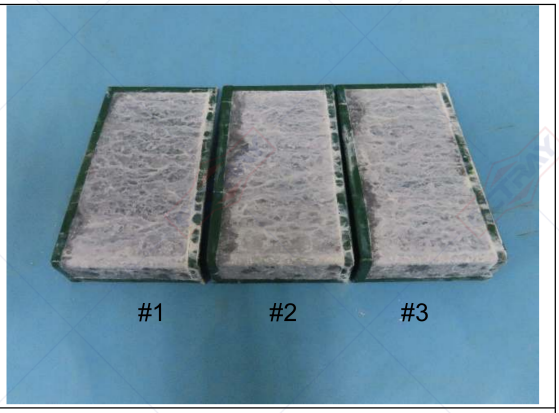
2. 揭掉样品保护膜后测试。

3.中间查样的结果是取样后未作处理立即评定的，仅供客户参考。

测试照片：



测试前 – 样品 A



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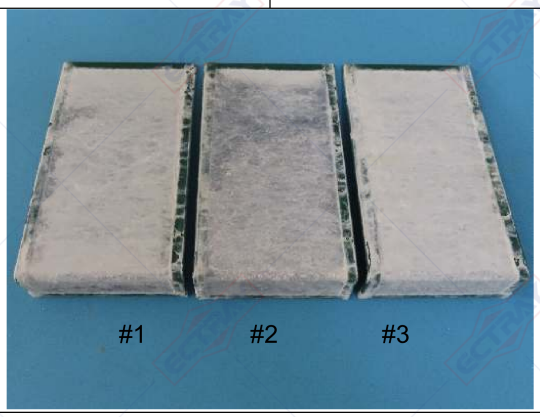

测试后 – 样品 A - 4500h

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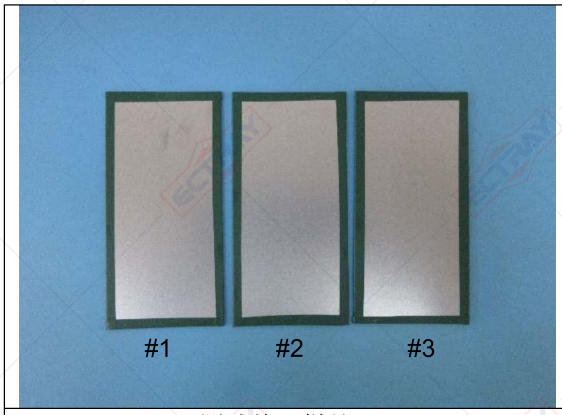

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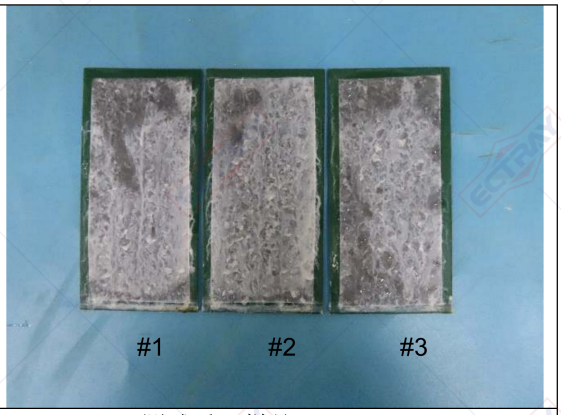

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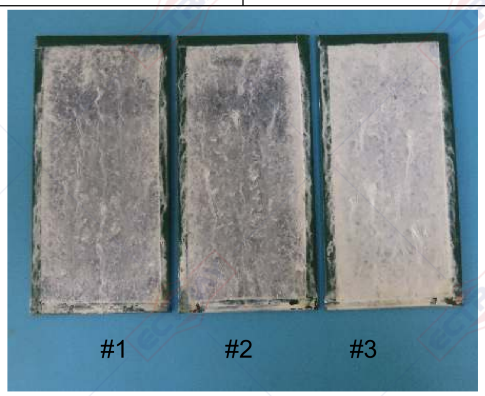

测试后 – 样品 B - 4500h

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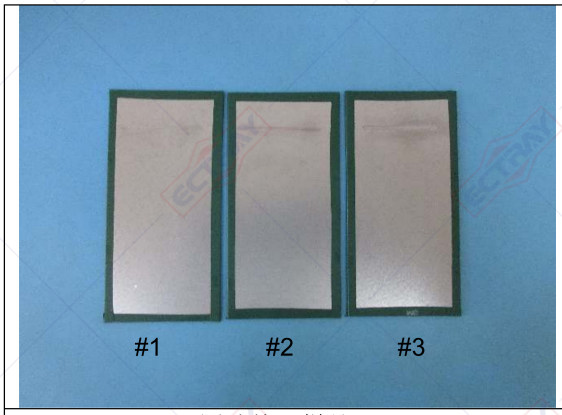

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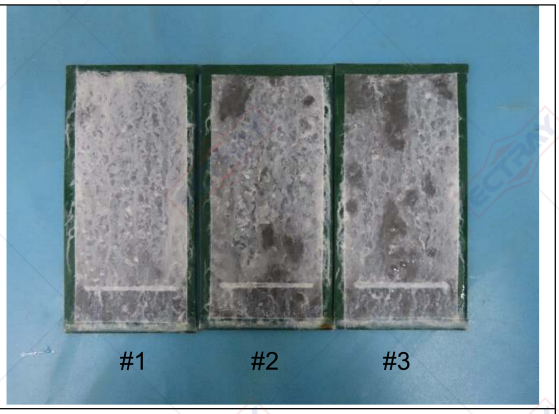
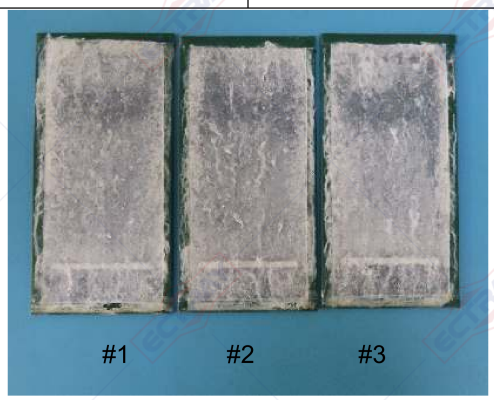


测试后 – 样品 C - 2000h



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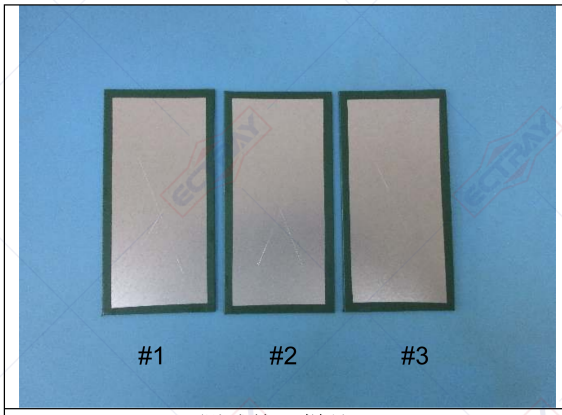

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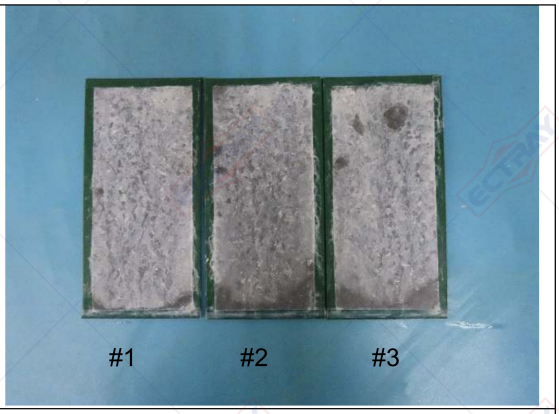
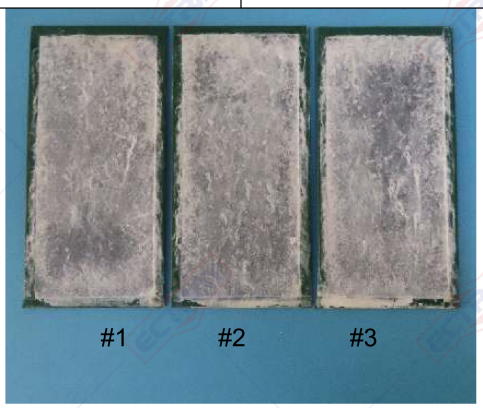


测试后 – 样品 D - 2000h



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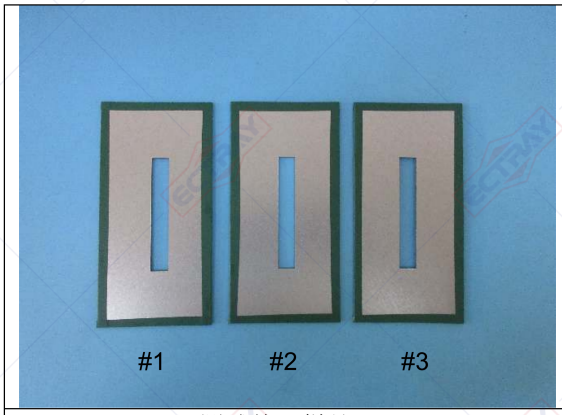
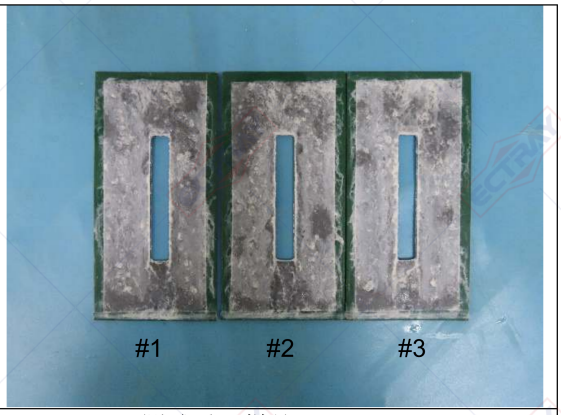
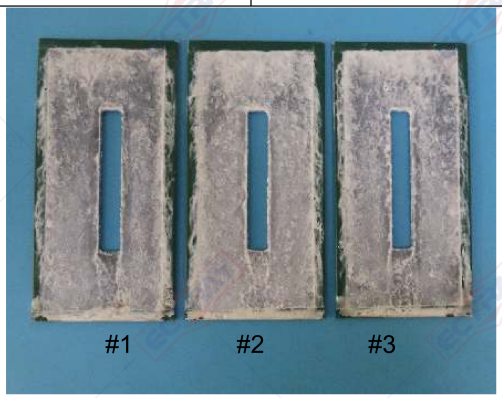


测试前 – 样品 E



测试后 – 样品 E - 2000h



测试后 – 样品 E - 4500h

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
盐雾试验箱	EST-120	POL-070	2019-10-31	2020-10-30
盐雾试验箱	EST-120	POL-070	2020-10-26	2021-10-25

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Test Report (SVHC)

No.: TSNPH24000593029 **Date:** Apr 30, 2024

Client Name: GANSU JIUGANG GROUP HONGXING STEEL CORPORATION CO,.LTD

Client Address: NO.12,XIONGGUAN EAST ROAD, JIAYUGUAN CITY, GANSU PROVINCE,CHINA

Sample Name: hot-dip Zinc-Aluminum-Magnesium Alloy-Coated steel sheet and strip (Anti-fingerprint Chromate free);Hot-dip Zinc-Aluminum-Magnesium Alloy-Coated steel sheet and strip (chromate - free passivation;Hot-dip Zinc-Aluminum-Magnesium Alloy-Coated steel sheet and strip (Non passivation）

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

SGS Job No.: TJPL2404001080

Sample Receiving Date: Apr 18, 2024

Testing Period: Apr 18, 2024 ~ Apr 24, 2024

Test Requested: As requested by client, SVHC screening is performed according to:
(i) Two hundred and forty (240) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 23, 2024 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) Two (2) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Mar 1, 2024 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(iii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.
(iv) Six (6) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.	Pass

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

Jaccy Liu
Approved Signatory

Scan to see the report
TSNPH24000593029
Verification:
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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
   http://echa.europa.eu/web/guest/candidate-list-table
   These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
   2.1 Concerning article(s):
   Communication:
   Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

   Notification:
   In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

   Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

   2.2 Concerning material(s):
   Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

   If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

   2.3 Concerning substance and preparation:
   If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
   - a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
   - a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
   - a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

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(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
(d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	metal matrix (silver gray metal layer excluded) + metal matrix (silver gray metal layer excluded) + metal matrix (silver gray metal layer excluded)	A7+A8+A9	TSN24-0005930-0003

Test Method:
With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

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Test Results: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in Candidate list	-	ND	-

Test Results: (Potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All tested Potential SVHC	-	ND	-

Notes:

(1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

(2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

(3) * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium, cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.

(4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

(5) / = Potential SVHC

(6) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.

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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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	21	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetrizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
/	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
/	242	Triphenyl phosphate	115-86-6	0.050
/	243	Resorcinol	108-46-3	0.050
/	244	Octamethyltrisiloxane	107-51-7	0.050
/	245	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	246	1,1,1,3,5,5,5-heptamethyltrisiloxane	1873-88-7	0.050
/	247	Decamethyltetrasiloxane	141-62-8	0.050
/	248	Dodecamethylpentasiloxane	141-63-9	0.050
/	249	Hexamethyldisiloxane	107-46-0	0.050

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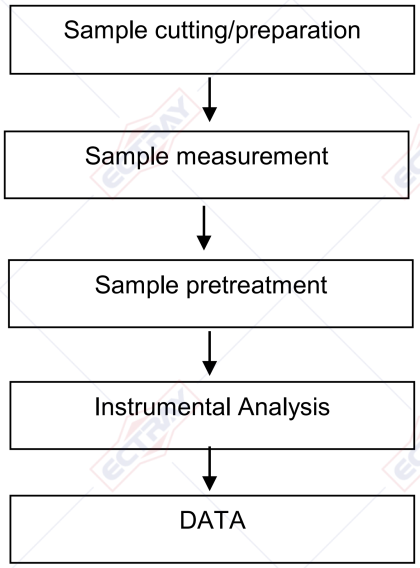
ATTACHMENTS

Testing Flow Chart



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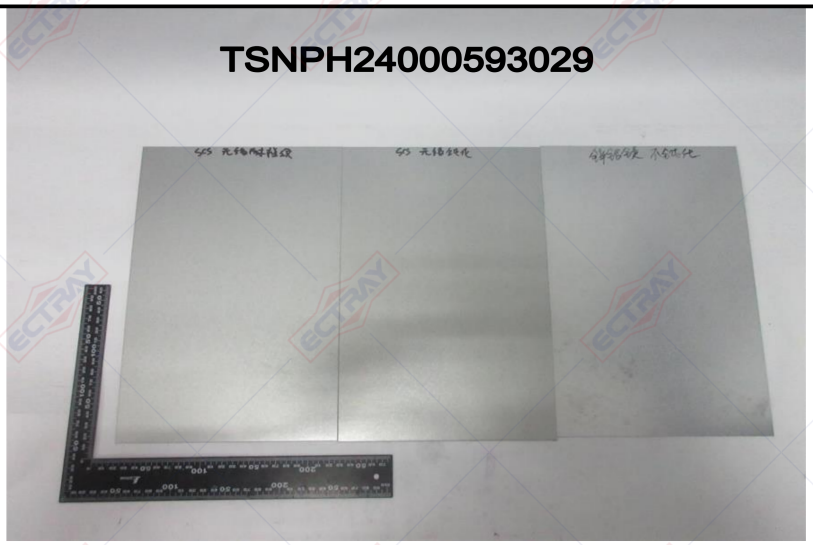
Sample photos:



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SGS authenticate the photo on original report only

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TEST REPORT

Scan to see the report

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Verification:
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No. : SZIN2408001649ML01_EN
Date : 2024-08-26
Page: 1 of 2

CUSTOMER NAME: GUANGDONG YUCHANG TECHNOLOGY CO., LTD

ADDRESS: NO.8 WANHE ROAD, SONGXIA INDUSTRY ZONE, SHISHAN TOWN, FOSHAN GUANGDONG, CHINA

Sample Name : Cable tray

Material and Mark : Zinc aluminum magnesium

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Date of Receipt : 2024-08-20

Testing Period : 2024-08-20 ~ 2024-08-26

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. ShenZhen Branch.

Peter

Peter Lau
Authorized signatory

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Center Materials Laboratory

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TEST REPORT

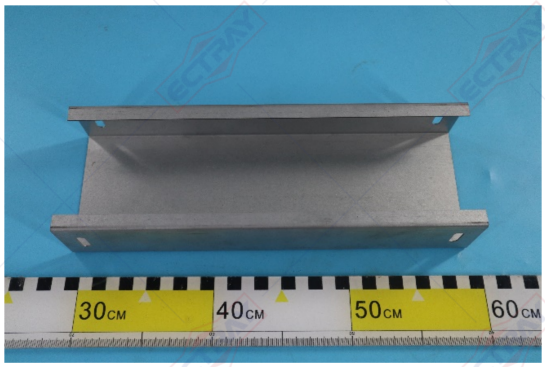
No. : SZIN2408001649ML01_EN
Date : 2024-08-26

Weight of Zinc coating Test: (Double sides)

Test Method: ISO 1460:2020

Item	Sample	Weight of Zinc coating (g/m^2)	Req. (g/m^2)	Con.
Result	001	296	≥275	Pass

Note: The requirement is specified in client's specification.



Sample Photo

Appendix information:

1.The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc… and just for internal reference.

2.Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

********End of report********

检验检测专用章 Inspection & Testing Services

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Center Materials Laboratory

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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

Room 101-901, Plant 4 & Room 101, Plant 2 & Room 101, Plant 3 & Room 301-501, Plant 3, Jianghan (Bantian) Industrial Plant Area, No. 430, Jihua Road, Bantian Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129 www.sgsgroup.com.cn

中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏（坂田）工业厂区厂房4号101-901、2号101、3号101、3号301-501 邮编:518129 t (86-755) 25328673 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

***SCS Global Services** does hereby certify that an independent assessment has been conducted on behalf of:*

Gansu Jiu Steel Group Hongxing Iron and Steel Co., Ltd.

12 Xiongguan East Road, Jiayuguan City, Gansu Province, China

For the following product(s):

Metals:

Continuous Hot-dip Galvanized Series Alloy-coated Steel Billet (Used for 21RC51+Z, 21RCHD+Z, 21RCSPCC, 21RC53+Z, 21RCFH+Z, 21RC51+AZ, 21RC53+AZ Series)

MINIMUM 21% RECYCLED CONTENT
POST-CONSUMER
PRE-CONSUMER

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

SCS RECYCLED CONTENT CERTIFIED

Conforms to SCS Recycled Content Standard V7-0 for a **Minimum 21% Recycled Steel Content, a mix of Post-Consumer and Pre-Consumer recycled material.** The material quantification and mass-balance calculations are completed on a dry-weight basis.

Registration # SCS-RC-09875
Valid from: February 27, 2024 to February 26, 2025

Nicole Munoz, Vice President
2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

首钢集团
SHOUGANG GROUP

产品质量证明书
INSPECTION CERTIFICATE

首钢集团地址:中国北京市石景山区
ADD.OF SHOUGANG GROUP : SHIJINGSHAN DISTRICT, BEIJING, CHINA
邮政编码 POST CODE : 100041
电话TEL. : 15832551757
E - mail : sgts@mail.shougang.com.cn
制造厂地址：中国河北省唐山市曹妃甸工业区
ADD. OF MANUFACTURER: CAOFEIDIAN INDUSTRY PARK, TANGSHAN, HEBEI, P.R. CHINA 063200

制造厂：首钢集团: 首钢京唐钢铁联合有限责任公司
Manufacturer: SHOUGANG GROUP : SHOUGANG JINGTANG UNITED IRON & STEEL CO.,LTD

订货单位 CUSTOMER	山东首钢钢铁贸易有限公司	合同编号 CONTRACT NO.	F2202109/FZ22001775	许可证编号 LICENSE NO.	
收货单位 PURCHASER	维实涂镀科技(上海)有限公司	产品名称 PRODUCT	热镀卷 Hot-dip coil	证明书编号 CERTIFICATE NO.	JTF2202120349
标 准 SPECIFICATION	Q/SGJS 0026-2021 FB(较高) 、 锌铝镁镀层（ZMA）、三价铬钝化 、 PT.B、PW.A、PL.A	牌号 STEEL GRADE	S350GD-CR+ZMA	认证标志 AUTHENTICATION MARK	
规 格（mm） NOMINAL DIMENSION	厚度THICK×宽度WIDTH×长度LENGTH=1.5*1250*C	签发日期 DATE OF DELIVERY	20250217		

钢卷号/捆包号 COIL NO. /PACK NO.	熔炼号 HEAT NO.	件数 PCS.	重量 WT. TON	化学成分CHEMICAL COMPOSITION % (1=×10 2=×100 3=×1000 4=×10000 5=×100000)											拉伸试验 TENSILE TEST (标距 G.L.= B6) ③										硬度 HARDNESS	BH值	杯突 ERICHSEN	Ra	RPc	镀层重量 COATING MASS			锌层弯曲 BEND TEST
				分析区分 ①	C	Si	Mn	P	S						方向 ②	屈服 Y.S. ReH	抗拉 T.S. Rm	伸长率 EL %	屈强比 YR ④ %	r0	n0	r平均值	n平均值						双面 BOTH	上面 TOP	下面 BOT	
					4	4	2	3	3							MPa																
																										Mpa	mm	μm		g/m2		
DG122211302103	5204981	1	8.67	RF	1819	337	64	10	3						1	475	557	27											295.67	142.3	153.4	合格
DG122211302101	5204981	1	8.3	RF	1819	337	64	10	3						1	475	557	27											295.67	142.3	153.4	合格
总计 TOTAL		2	16.97																												
备 注 REMARKS																															

注 释 NOTES：① 分析区分（ANALYSIS）: RF=熔炼分析（LADLE ANALYSIS）, CF=成品分析（PRODUCT ANALYSIS）。 ② 方向 （ORIENTATION）： 1=纵向（LONGI）； 2=横向（TRANS）； 4=与轧制方向成30°（ 30° TO THE ROLLING DIRECTION）； 6=与轧制方向成45°（ 45°TO THE ROLLING DIRECTION）； 7=与轧制方向成60°（ 60°TO THE ROLLING DIRECTION）。 ③ 标距 G.L.=（GAUGE LENGTH）: 矩形试验片（RECTANGULAR）： A:比例标距,其中1=5.65×SQRT(F0)，2=11.3SQRT(F0)。B:定标距, 2=50mm, 3=50.8mm, 6=80mm, 8=200mm。 ④YR=屈强比（YIELD RATIO Y.S/T.S）。

会验者 SURVEYOR TO

1．本产品已按上述要求进行制造和检验，其结果符合要求，特此证明。WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION.
2．本质量证明书中空白项目均不作为交货条件。THE BLANK ITEMS SHOULDN'T BE REGARDED AS DELIVERY CONDITIONS.

质量负责人: QUALITY MANAGER

防伪码：dLBdGK

酒钢集团
JISCO

酒钢锌铝镁合金镀层板
30年质量承诺书

各位用户：

甘肃酒钢集团宏兴钢铁股份有限公司碳钢薄板厂郑重承诺，我厂生产的锌铝镁合金镀层板（符合Q/JG-008-2017标准）自出厂之日起，在正常的加工和使用条件下，可保证达到：

1、锌铝镁钢板（带）在30年内不出现红锈。

2、在35年内不会发生腐蚀穿孔。

特别说明：

正常的加工和使用条件含义如下：

（1）正常的气候条件（不包括长期极端恶劣气候条件，如强湿热、强雨雪冰冻天气）。

（2）正常使用环境（如距离海岸2000米以外和重工业污染区以外）。

（3）必须是酒钢生产的镀层厚度不小于275g/m²锌铝镁合金镀层板。

（4）常温下使用。

本承诺不包括下列情况：

（1）在加工前、后或加工过程中镀层受到机械、化学或人为损伤。

（2）长时间接触沉积物、铁屑或油污。

（3）受不可抗力的影响，如自然灾害、社会异常事件等。

用户须知：

本质量承诺自生效之日起，用户提出抱怨时必须提供下列完整的可追溯资料：

（1）合同号、钢卷号

（2）工程竣工验收记录

（3）原始钢卷采购凭证

本承诺书对二零一八年三月一日后生产的锌铝镁合金镀层板有效，最终解释权归甘肃酒钢集团宏兴钢铁股份有限公司碳钢薄板厂。

甘肃酒钢集团宏兴钢铁股份有限公司 碳钢薄板厂

二零一八年三月一日　　授权人签字

签发日期

甘肃酒钢集团宏兴钢铁股份有限公司

无有害成分证明

Certificate of No Harmful Ingredients

兹证明，我方生产的锌铝镁，经过严格检测，确认其无有害成分存在，符合相关法规和标准的要求。请看附件一材质成分表

This is to certify that the zinc aluminum magnesium produced by our company has undergone strict testing and has been confirmed to have no harmful components, meeting the requirements of relevant regulations and standards. Please refer to Attachment 1 Material Composition Table

经过我方对上述产品进行检测，检测结果显示，锌铝镁不含以下有害成分:

重金属: 铅、汞、镉、铬等重金属含量均未超出国家标准规定的范围。

有害化学物质: 中醛、苯等有害物质并未检出

有毒物质:我们的产品中无添加任何有毒物质，符合相关法规的要求。

After our testing of the above products, the results show that zinc aluminum magnesium does not contain the following harmful components:

Heavy metals: The content of heavy metals such as lead, mercury, cadmium, and chromium does not exceed the range specified by national standards.

Harmless chemicals: Harmful substances such as aldehydes and benzene have not been detected

Toxic substances: Our products do not contain any toxic substances and comply with relevant regulatory requirements.

我方郑重声明，后续生产的同类产品将继续保持相同的生产工艺和质量标准，确保产品的安全性和可靠性。

感谢您对我们产品的信任与支持。如有其他需要，请随时与我方联系。

特此证明。

We solemnly declare that similar products produced in the future will continue to maintain the same production process and quality standards, ensuring the safety and reliability of the products.

Thank you for your trust and support in our product. If you have any other needs, please feel free to contact us at any time.

Hereby certify.

甘肃酒钢集团宏兴钢铁股份有限公司碳钢薄板厂

2024 年 4 月 9 日

甘肃酒钢集团宏兴钢铁股份有限公司 碳钢薄板厂