GSteel

Compliance Declaration Letter

RoHS Compliance Declaration

Based on the information available to us from our raw material suppliers, the product "Hot Rolled Steel" manufactured by G-Steel Public Company Limited complies with the substance restriction requirements of the EU RoHS Directive 2011/65/EU (Annex II) including the latest amended by Directive (EU) 2015/863.

The following table lists:

NO.	Product	Product Materials Type	Analysis Results									
			Lead (Pb):	Mercury (Hg):	Cadmium (Cd):	Hexavalent Chromium (Cr^{6+}):	Polybrominated Biphenyls (PBB):	Polybrominated Diphenyl Ether (PBDE):	Bis (2-Ethylhexyl) phthalate (DEHP):	Benzyl butyl phthalate (BBP):	Dibutyl phthalate (DBP):	Di-isobutyl phthalate (DIBP):
1.	Hot Roll Steel Strip	Metal	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
RoHS Directive (ppm)			1000	1000	100	n.d.	1000	1000	1000	1000	1000	1000

By reference the attached document: Test report no. 5903269 from Laboratory Services of SGS (Thailand) Limited.

REACH Compliance Declaration

We hereby also certify that Hot Rolled Steel manufactured by G Steel Public Company Limited fully complied with the related requirements of European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH):

1. Under the structure of the REACH regulation, G Steel Public Company Limited manufactures a "Hot Rolled Steel Strip" according to ECHA's guidance.
2. As REACH regulation is updated frequently, for the major changes afterwards, such as the addition of SVHC, and the addition of restricted substances, G Steel Public Company Limited will evaluate the further revision in time and update the declaration to reflect these changes.

REACH SVHC List in Excel Table, Total Number: 240 Entries (Updated on 23 Jan 2024)						
ECHA Source: http://echa.europa.eu/candidate-list-table						
More Info: http://www.chemsafetypro.com						
Index	Chemical Name	EC No.	CAS No.	Inclusion Date (Y-M-D)	Use	Not Use
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol Phenol, methylstyrenated EC No.: 270-966-8 | CAS No.: 68512-30-1	700-960-7	-	23-01-24		✓
239	Bumetrizole (UV-326)	223-445-4	3896-11-5	23-01-24		✓
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	438-340-0	119344-86-4	23-01-24		✓
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	221-573-5	3147-75-9	23-01-24		✓
236	2,4,6-tri-tert-butylphenol	211-989-5	732-26-3	23-01-24		✓
235	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8	14-06-23		✓
234	bis(4-chlorophenyl) sulphone	201-247-9	80-07-9	14-06-23		✓
233	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	17-01-23		✓
232	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7	17-01-23		✓
231	4,4'-sulphonyldiphenol	201-250-5	80-09-1,	17-01-23		✓
230	Barium diboron tetraoxide	237-222-4	13701-59-2	17-01-23		✓
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	17-01-23		✓
228	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3,	17-01-23		✓
227	Melamine	203-615-4	108-78-1	17-01-23		✓
226	Perfluoroheptanoic acid and its salts	-	-	17-01-23		✓

225	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	473-390-7	-	17-01-23		✓
224	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	10-06-22		✓
223	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17-01-22		✓
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(X4261)	401-850-9	255881-94-8	17-01-22		✓
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17-01-22		✓
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)	-	178206 9-81-1, 95342-41-9, 852541-25-4, 36861-47-9, 741687-98-9, 852541-30-1, 852541-21-0	17-01-22		✓
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	310-154-3	210555-94-5, 27459-10-5, 27147-75-7, 121158-58-5, 74499-35-7, 57427-55-1	08-07-21		✓
218	orthoboric acid, sodium salt	238-253-6, 215-604-1, 237-560-2	25747-83-5, 22454-04-2, 14312-40-4, 1333-73-9, 13840-56-7,	08-07-21		✓

			14890-53-0			
217	Medium-chain chlorinated paraffins (MCCP)	287-477-0, 950-299-5	1372804-76-6, 85535-85-9, 198840-65-2	08-07-21		✓
216	glutaral	203-856-5	111-30-8	08-07-21		✓
215	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	08-07-21		✓
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	201-289-8	75166-31-3, 80-54-6, 75166-30-2	08-07-21		✓
213	2,2-bis(bromomethyl)propane-1,3-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)	253-057-0, 221-967-7, 202-480-9	1522-92-5, 36483-57-5, 3296-90-0, 96-13-9	08-07-21		✓
212	1,4-dioxane	204-661-8	123-91-1	08-07-21		✓
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	-	-	19-01-21		✓
210	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19-01-21		✓
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	25-06-20		✓
208	butyl 4-hydroxybenzoate	202-318-7	94-26-8	25-06-20		✓
207	2-methylimidazole	211-765-7	693-98-1	25-06-20		✓
206	1-vinylimidazole	214-012-0	1072-63-5	25-06-20		✓
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	16-01-20		✓

204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	16-01-20		✓
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	16-01-20		✓
202	Diisohexyl phthalate	276-090-2	71850-09-4	16-01-20		✓
201	2-methoxyethyl acetate	203-772-9	110-49-6	16-07-19		✓
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ⩾ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	16-07-19		✓
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	16-07-19		✓
198	4-tert-butylphenol	202-679-0	98-54-4	16-07-19		✓
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	239-139-9	15087-24-8	15-01-19		✓
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	15-01-19		✓
195	Benzo[k]fluoranthene	205-916-6	207-08-9	15-01-19		✓
194	Fluoranthene	205-912-4	206-44-0; 93951-69-0	15-01-19		✓
193	Phenanthrene	201-581-5	85-01-8	15-01-19		✓
192	Pyrene	204-927-3	129-00-0; 1718-52-1	15-01-19		✓
191	Benzo[ghi]perylene	205-883-8	191-24-2	27-06-18		✓
190	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	27-06-18		✓
189	Disodium octaborate	234-541-0	12008-41-2	27-06-18		✓
188	Dodecamethylcyclohexasiloxane(D6)	208-762-8	540-97-6	27-06-18		✓
187	Ethylenediamine	203-468-6	107-15-3	27-06-18		✓
186	Lead	231-100-4	7439-92-1	27-06-18		✓
185	Octamethylcyclotetrasiloxane(D4)	209-136-7	556-67-2	27-06-18		✓

184	Terphenyl, hydrogenated	262-967-7	61788-32-7	27-06-18		✓
183	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	27-06-18		✓
182	benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)(TMA)	209-008-0	552-30-7	27-06-18		✓
181	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	15-01-18		✓
180	Cadmium carbonate	208-168-9	513-78-0	15-01-18		✓
179	Cadmium hydroxide	244-168-5	21041-95-2	15-01-18		✓
178	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	15-01-18		✓
177	Chrysene	205-923-4	218-01-9, 1719-03-5	15-01-18		✓
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	-	15-01-18		✓
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	15-01-18		✓
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	07-07-17		✓
173	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	12-01-17		✓
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2	12-01-17		✓
171	4-heptylphenol, branched and linear (4-HPbl)	-	-	12-01-17		✓
170	p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6	12-01-17		✓
169	Benzo[def]chrysene	200-028-5	50-32-8	20-06-16		✓
168	Nitrobenzene	202-716-0	98-95-3	17-12-15		✓
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17-12-15		✓
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17-12-15		✓

165	1,3-propanesultone	214-317-9	1120-71-4	17-12-15		✓
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39-8, 4149-60-4	17-12-15		✓
163	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 (EC No. 201-559-5)	271-094-0, 272-013-1	68515-51-5, 68648-93-1	15-06-15		✓
162	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 stereoisomers of [1] and [2] or any combination thereof]			15-06-15		✓
161	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17 ; 2008/10/28		✓
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17-12-14		✓
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17-12-14		✓
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17-12-14		✓
157	Cadmium fluoride	232-222-0	7790-79-6	17-12-14		✓
156	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17-12-14		✓
155	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 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 and MOTE)			17-12-14		✓

154	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	16-06-14		✓
153	Cadmium chloride	233-296-7	10108-64-2	16-06-14		✓
152	Sodium perborate,perboric acid, sodium salt	239-172-9, 234-390-0		16-06-14		✓
151	Sodium peroxometaborate	231-556-4	7632-4-4,	16-06-14		✓
150	Cadmium sulphide	215-147-8	1306-23-6	16-12-13		✓
149	Dihexyl phthalate	201-559-5	84-75-3	16-12-13		✓
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	16-12-13		✓
147	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)	217-710-3	1937-37-7	16-12-13		✓
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16-12-13		✓
145	Lead di(acetate)	206-104-4	301-04-2	16-12-13		✓
144	Trixylyl phosphate	246-677-8	25155-23-1	16-12-13		✓
143	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]			20-06-13		✓
142	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20-06-13		✓
141	Cadmium	231-152-8	7440-43-9	20-06-13		✓
140	Cadmium oxide	215-146-2	1306-19-0	20-06-13		✓

139	Dipentyl phthalate (DPP)	205-017-9	131-18-0	20-06-13		✓
138	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20-06-13		✓
137	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	19-12-12		✓
136	1,2-Diethoxyethane	211-076-1	629-14-1	19-12-12		✓
135	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19-12-12		✓
134	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19-12-12		✓
133	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19-12-12		✓
132	4,4'-oxydianiline and its salts	202-977-0	101-80-4	19-12-12		✓
131	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]			19-12-12		✓
130	4-Aminoazobenzene	200-453-6	60-09-3	19-12-12		✓
129	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19-12-12		✓
128	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]			19-12-12		✓
127	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19-12-12		✓
126	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19-12-12		✓
125	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19-12-12		✓
124	Biphenyl-4-ylamine	202-177-1	92-67-1	19-12-12		✓
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19-12-12		✓

122	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	19-12-12		✓
121	Diazene-1,2-dicarboxamide (C,C`-azodi(formamide)) (ADCA)	204-650-8	123-77-3	19-12-12		✓
120	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19-12-12		✓
119	Diethyl sulphate	200-589-6	64-67-5	19-12-12		✓
118	Diisopentylphthalate	210-088-4	605-50-5	19-12-12		✓
117	Dimethyl sulphate	201-058-1	77-78-1	19-12-12		✓
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19-12-12		✓
115	Dioxobis(stearato)trilead	235-702-8	12578-12-0	19-12-12		✓
114	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19-12-12		✓
113	Furan	203-727-3	110-00-9	19-12-12		✓
112	Henicosafluoroundecanoic acid	218-165-4	2058-94-8	19-12-12		✓
111	Heptacosafluorotetradecanoic acid	206-803-4	376-06-7	19-12-12		✓
110	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	19-12-12		✓
109	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19-12-12		✓
108	Lead cyanamidate	244-073-9	20837-86-9	19-12-12		✓
107	Lead dinitrate	233-245-9	10099-74-8	19-12-12		✓

106	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19-12-12		✓
105	Lead oxide sulfate	234-853-7	12036-76-9	19-12-12		✓
104	Lead titanium trioxide	235-038-9	12060-00-3	19-12-12		✓
103	Lead titanium zirconium oxide	235-727-4	12626-81-2	19-12-12		✓
102	Methoxyacetic acid	210-894-6	625-45-6	19-12-12		✓
101	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19-12-12		✓
100	N,N-dimethylformamide	200-679-5	68-12-2	19-12-12		✓
99	N-methylacetamide	201-182-6	79-16-3	19-12-12		✓
98	N-pentyl-isopentylphthalate		776297-69-9	19-12-12		✓
97	o-aminoazotoluene	202-591-2	97-56-3	19-12-12		✓
96	o-Toluidine	202-429-0	95-53-4	19-12-12		✓
95	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19-12-12		✓
94	Pentacosafluorotridecanoic acid	276-745-2	72629-94-8	19-12-12		✓
93	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19-12-12		✓
92	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	19-12-12		✓
91	Silicic acid (H₂Si₂O₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	272-271-5	68784-75-8	19-12-12		✓
90	Silicic acid, lead salt	234-363-3	11120-22-2	19-12-12		✓
89	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19-12-12		✓
88	Tetraethyllead	201-075-4	78-00-2	19-12-12		✓
87	Tetralead trioxide sulphate	235-380-9	12202-17-4	19-12-12		✓

86	Tricosafluorododecanoic acid	206-203-2	307-55-1	19-12-12		✓
85	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19-12-12		✓
84	Trilead dioxide phosphonate	235-252-2	12141-20-7	19-12-12		✓
83	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	203-977-3	112-49-2	18-06-12		✓
82	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18-06-12		✓
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18-06-12		✓
80	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	18-06-12		✓
79	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	18-06-12		✓
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18-06-12		✓
77	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	18-06-12		✓
76	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	18-06-12		✓
75	Diboron trioxide	215-125-8	1303-86-2	18-06-12		✓
74	Formamide	200-842-0	75-12-7	18-06-12		✓

73	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18-06-12		✓
72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18-06-12		✓
71	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0	18-06-12		✓
70	1,2-Dichloroethane	203-458-1	107-06-2	19-12-11		✓
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	19-12-11		✓
68	2-Methoxyaniline,o-Anisidine	201-963-1	90-04-0	19-12-11		✓
67	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19-12-11		✓
66	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight			19-12-11		✓
65	Arsenic acid	231-901-9	7778-39-4	19-12-11		✓
64	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19-12-11		✓

63	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19-12-11		✓
62	Calcium arsenate	231-904-5	7778-44-1	19-12-11		✓
61	Dichromium tris(chromate)	246-356-2	24613-89-6	19-12-11		✓
60	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19-12-11		✓
59	Lead diazide, Lead azide	236-542-1	13424-46-9	19-12-11		✓
58	Lead dipicrate	229-335-2	6477-64-1	19-12-11		✓
57	Lead styphnate	239-290-0	15245-44-0	19-12-11		✓
56	N,N-dimethylacetamide	204-826-4	127-19-5	19-12-11		✓
55	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19-12-11		✓
54	Phenolphthalein	201-004-7	77-09-8	19-12-11		✓
53	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	19-12-11		✓
52	Trilead diarsenate	222-979-5	3687-31-8	19-12-11		✓
51	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight			19-12-11		✓

50	Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28		✓
49	1,2,3-trichloropropane	202-486-1	96-18-4	20-06-11		✓
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20-06-11		✓
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20-06-11		✓
46	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20-06-11		✓
45	2-Ethoxyethyl acetate	203-839-2	111-15-9	20-06-11		✓
44	Hydrazine	206-114-9	302-01-2, 7803-57-8	20-06-11		✓
43	Strontium chromate	232-142-6	7789-6-2,	20-06-11		✓
42	2-Ethoxyethanol	203-804-1	110-80-5	15-12-10		✓
41	2-Methoxyethanol	203-713-7	109-86-4	15-12-10		✓
40	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	15-12-10		✓
39	Chromium trioxide	215-607-8	1333-82-0	15-12-10		✓
38	Cobalt(II) carbonate	208-169-4	513-79-1	15-12-10		✓
37	Cobalt(II) diacetate	200-755-8	71-48-7	15-12-10		✓
36	Cobalt(II) dinitrate	233-402-1	10141-05-6	15-12-10		✓
35	Cobalt(II) sulphate	233-334-2	10124-43-3	15-12-10		✓
34	Ammonium dichromate	232-143-1	7789-9-5,	18-06-10		✓
33	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	18-06-10		✓
32	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	18-06-10		✓

31	Potassium chromate	232-140-5	7789-00-6	18-06-10		✓
30	Potassium dichromate	231-906-6	7778-50-9	18-06-10		✓
29	Sodium chromate	231-889-5	7775-11-3,	18-06-10		✓
28	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18-06-10		✓
27	Trichloroethylene	201-167-4	79-01-6	18-06-10		✓
26	Acrylamide	201-173-7	79-06-1	30-03-10		✓
25	2,4-Dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	13-01-10		✓
24	Anthracene oil	292-602-7	90640-80-5	13-01-10		✓
23	Anthracene oil, anthracene paste	292-603-2	90640-81-6	13-01-10		✓
22	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13-01-10		✓
21	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	13-01-10		✓
20	Anthracene oil, anthracene-low	292-604-8	90640-82-7	13-01-10		✓
19	Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	13-01-10		✓
18	Lead chromate	231-846-0	7758-97-6	13-01-10		✓
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13-01-10		✓
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13-01-10		✓
15	Pitch, coal tar, high temp.	266-028-2	65996-93-2	13-01-10		✓
14	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	13-01-10		✓
13	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28-10-08		✓
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	28-10-08		✓
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28-10-08		✓
10	Anthracene	204-371-1	120-12-7	28-10-08		✓
9	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28-10-08		✓
8	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	28-10-08		✓
7	Diarsenic pentaoxide	215-116-9	1303-28-2	28-10-08		✓

6	Diarsenic trioxide	215-481-4	1327-53-3	28-10-08		✓
5	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28-10-08		✓
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	28-10-08		✓
3	Lead hydrogen arsenate	232-064-2	7784-40-9	28-10-08		✓
2	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	28-10-08		✓
1	Triethyl arsenate	427-700-2	15606-95-8	28-10-08		✓

We further declare that all the statements in this letter are true and accurate.

木村貴(1)

(Mr. Takashi KIMURA)

Quality Control General Manager

Date: 19 / Jun / 2024

NSC-TISI-TIS 17025
Testing 0452
SGS (Thailand) Limited

Test Report No. 5903269 Date : 31-May-2024

Client : G STEEL PUBLIC CO., LTD.
55 MOO.5
NONGLALOG, BANKHAI RAYONG 21120 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Name	:	Hot Rolled Steel Strip
Sample Description	:	Steel Sheet (10 CM x 20 CM)
Batch/Lot No.	:	Heat No.596185
Material Type	:	Metal
Manufacturer/Vendor	:	G Steel PCL.
Country of Origin	:	Thailand

The following sample(s) was/were identified by SGS as:

SGS Sample No.	:	6213962
Sample Condition	:	As per attached photograph.
Quantity Submitted	:	1 pc
Sample Receiving Date	:	24-May-2024
Testing Period	:	27-May-2024 to 31-May-2024

Signed for and on behalf of
SGS (Thailand) Ltd.

Anchalee Wunnaphuek
Acting - RSTS Lab Manager

5604982

Test Report No. 5903269 Date : 31-May-2024

Test Requested : In accordance with the EU RoHS Directive 2011/65/EU (Annex II) [amended by Directive (EU) 2015/863] .Selected test (s) as requested by client.

Test Method :
(1) IEC 62321-5 edition 1.0 : 2013 for Lead content, Analyzed by ICP-OES.
(2) IEC 62321-5 edition 1.0 : 2013 for Cadmium content, Analyzed by ICP-OES.
(3) IEC 62321-4 ,edition 1.1 : 2017 for Mercury Content, Analyzed by ICP-OES.
(4) IEC 62321-7-1 edition 1.0 : 2015 for Hexavalent Chromium Content,Analyzed by UV/Vis Spectrometry.
(5) IEC 62321-6 edition 1.0 : 2015 for PBBs/PBDEs content, Analyzed by GC/MS.
(6) IEC 62321-8 edition 1.0 : 2017 for Phthalates content,Analyzed was performed by GC/MS.

Test Results : Please refer to next page.

CONCLUSION

Based on the performed tests on submitted sample(s),the results of Cadmium (Cd),Lead (Pb),Mercury (Hg),Hexavalent chromium (Cr-VI),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 where the decision rules based on simple acceptance which the probability of false accept may be as high as 50% in case the results is exactly on the tolerance limit.

SGS (Thailand) Limited | Laboratory Services 700/693 Moo 7 Don Hua Roh Muang Chonburi Chonburi 20000
t +66 (0)33 266 165 f +66 (0)33 266 166 www.sgs.com

Member of the SGS Group

Test Report No. 5903269 Date : 31-May-2024

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction # (Unit : (ug/cm2))	(4)	n.d.	0.10	-

Test Part Description
Result (1) metal

Note :
(a) mg/kg = ppm ; 0.1wt% = 1000 ppm
(b) ug/cm2 = microgram/centremeter square
(c) n.d. = Not Detected
(d) MDL = Method Detection Limit
(e) # = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm2. The sample coating is considered to contain CrVI
b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 ug/cm2). The coating is considered a non-CrVI based coating
c. The result between 0.10 ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination
(f) "-" = Not regulated
(g) For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing.

SGS (Thailand) Limited | Laboratory Services 700/693 Moo 7 Don Hua Roh Muang Chonburi Chonburi 20000
t +66 (0)33 266 165 f +66 (0)33 266 166 www.sgs.com
Member of the SGS Group

Test Report No. 5903269 Date : 31-May-2024

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Polybrominated biphenyls (PBB)	(5)*	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Polybrominated diphenyl ethers (PBDE)	(5)*	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

Test Part Description
Result (1) metal

Note :
(a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
(b) n.d. = Not Detected
(c) MDL = Method Detection Limit
(d) "-" = Not regulated
(e) Test done on client submitted sample

TEST RESULTS

Phthalates Content for RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863],Analysis was performed by GC/MS.

Analysis	Method (Refer to)	Result (1) (mg/kg)	MDL	RoHS Limit (mg/kg)
DBP (Di-butyl phthalate) (CAS No.: 84-74-2)	(6)*	n.d.	50	1000
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	(6)*	n.d.	50	1000
DEHP (Di-2-ethylhexyl phthalate) (CAS No.: 117-81-7)	(6)*	n.d.	50	1000
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	(6)*	n.d.	50	1000

Test Part Description
Result (1) metal

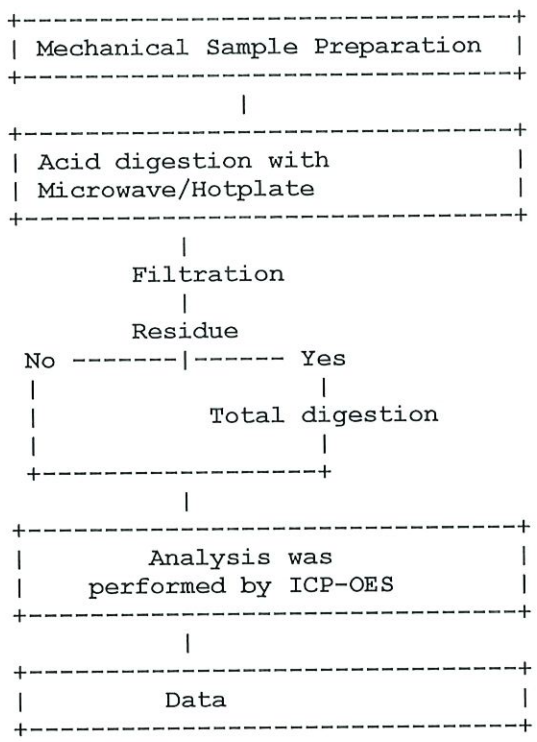
Note :
(a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
(b) n.d. = Not Detected
(c) MDL = Method Detection Limit
(d) Test done on client submitted sample

Remarks :
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021

Test(s) marked * on this report are not included in the Accreditation Scope.

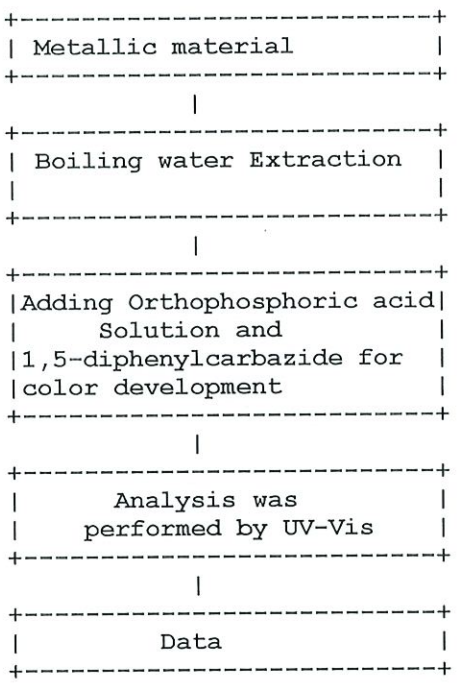
Flow chart of Pb,Cd,Hg Testing

(Test method : IEC 62321)

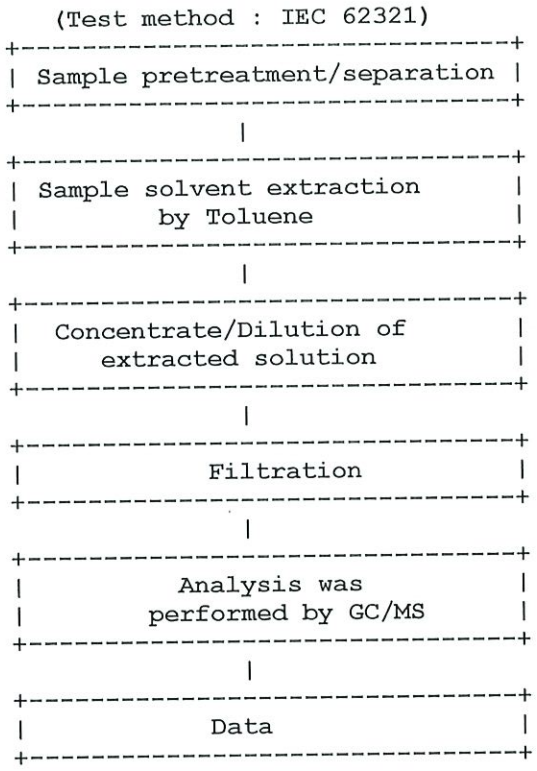


Flow chart of Hexavalent Chromium Testing

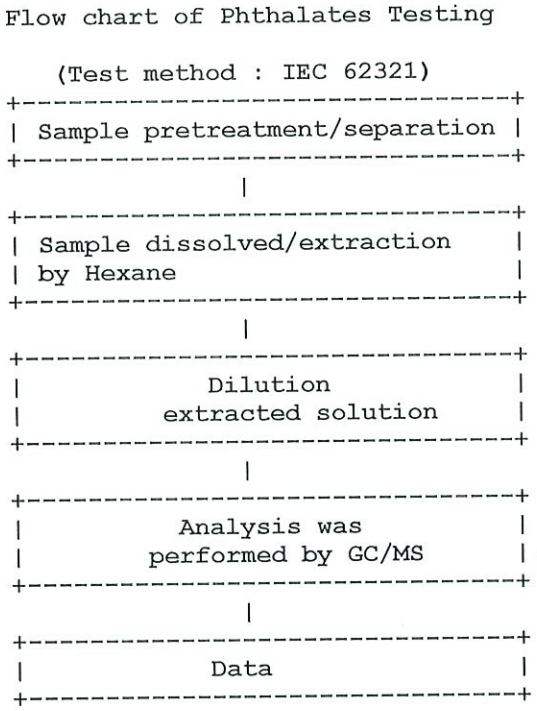
(Test method : IEC 62321)



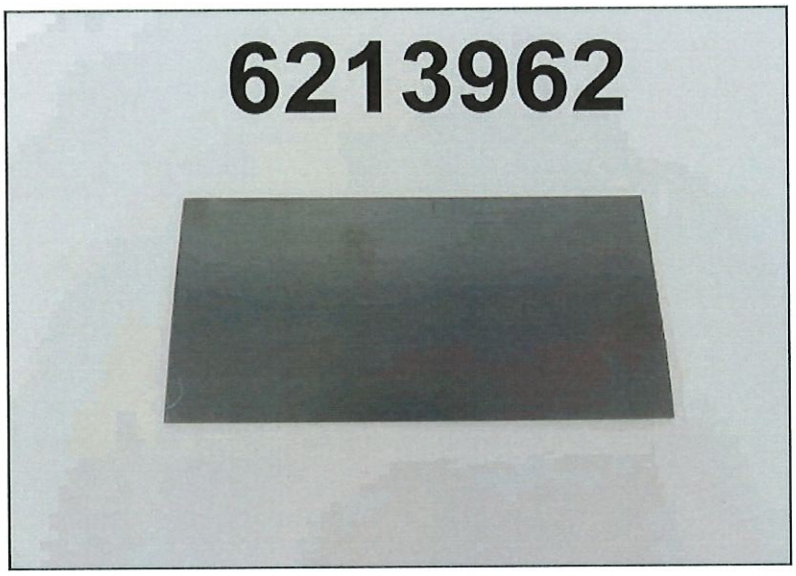
Flow chart of PBBs,PBDEs Testing



Flow chart of Phthalates Testing



SAMPLE/ATTACHMENT PICTURE



********** End of Report **********