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Materials Declaration

Part Name: Connector
Part Number: 181-062-113R171
Part Weight (kg): 0.02038

Environment Friendly Use Period: 10+ Years

	RoHS TEST REPORT											
	Lead Pb		Mercury Hg		Cadmium Cd		Hexavalent Chromium Cr6		Polybrominated Biphenyls PBBs		Polybrominated Diphenyl ethers PBEs	
% Allowed	≤ 0.10		≤ 0.10		≤ 0.01		≤ 0.10		≤ 0.10		≤ 0.10	
Sub-Part Name	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%
Insulator Shell Contacts 4-40 Insert/Rivet Ground Strap	N.D.		N.D.		N.D.		N.D.		N.D.		N.D.	
	2	0.00	2	0.00	2	0.00	325	0.03	N.D.		N.D.	
	27	0.00	N.D.		N.D.		N.D.		N.D.		N.D.	
	20770	2.08	N.D.		N.D.		N.D.		N.D.		N.D.	
	23.5	0.00	N.D.		N.D.		N.D.		N.D.		N.D.	
Exemptions:	6C - 4% lead in copper alloy											

Sub-Part Name: Insulator
Sub-Part Weight (kg): 0.01100

Base Material: High Temp. PA9T
G2330 - Black

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4,	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.

2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7	0.05	N.D.
Anthracene oil, paste, distn. Lights	84-74-2	201-557-4		
Anthracene oil, paste, fraction	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2		
Aluminosilicate, Ref. Cer. Fibres	-	650-017-00-8		
Zirconia Alum., Ref. Cer. Ribres	-	650-017-00-8		
Lead chromate	7758-97-6	231-846-0	0.005	N.D.
Lead chromate sulfate red	12656-85-8	235-759-9	0.005	N.D.
Lead chromate sulfate yellow	1344-37-2	215-693-7	0.005	N.D.
Acryamide	79-06-1	201-173-7	0.005	N.D.
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05	N.D.

Sub-Part Name: Shell
Sub-Part Weight (kg): 0.00330

Base Material: SPCC
Plating: Nickel

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	-
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	-
Dibutyl phthalate	84-74-2	201-557-4	0.005	-
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	-
HBCDD	25637-99 & 3194-55-6	247-148-4,	0.005	-
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	-
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	-
musk xylene	81-15-2	201-329-4	0.005	-
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	-
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	-
Anthracene oil	90640-80-5	292-602-7	0.05	-
Anthracene oil, paste, distn. Lights	84-74-2	201-557-4		
Anthracene oil, paste, fraction	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2		
Aluminosilicate, Ref. Cer. Fibres	-	650-017-00-8		
Zirconia Alum., Ref. Cer. Ribres	-	650-017-00-8		
Lead chromate	7758-97-6	231-846-0	0.005	N.D.
Lead chromate sulfate red	12656-85-8	235-759-9	0.005	N.D.
Lead chromate sulfate yellow	1344-37-2	215-693-7	0.005	N.D.
Acryamide	79-06-1	201-173-7	0.005	-
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	-
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05	-

Sub-Part Name: Contacts
Sub-Part Weight (kg): 0.00480

Base Material: Brass - C2680
Plating: Gold Flash

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	-
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	-
Dibutyl phthalate	84-74-2	201-557-4	0.005	-
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	-
HBCDD	25637-99 & 3194-55-6	247-148-4,	0.005	-
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	-
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	-
musk xylene	81-15-2	201-329-4	0.005	-
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	-
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	-
Anthracene oil	90640-80-5	292-602-7	0.05	-
Anthracene oil, paste, distn. Lights	84-74-2	201-557-4		
Anthracene oil, paste, fraction	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2		
Aluminosilicate, Ref. Cer. Fibres	-	650-017-00-8		
Zirconia Alum., Ref. Cer. Ribres	-	650-017-00-8		
Lead chromate	7758-97-6	231-846-0	0.005	N.D.
Lead chromate sulfate red	12656-85-8	235-759-9	0.005	N.D.
Lead chromate sulfate yellow	1344-37-2	215-693-7	0.005	N.D.
Acryamide	79-06-1	201-173-7	0.005	-
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	-
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05	-

Sub-Part Name: 4-40 Insert/Rivet
Sub-Part Weight (kg): 0.00073

Base Material: Copper Alloy - JISC3604

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	-
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	-
Dibutyl phthalate	84-74-2	201-557-4	0.005	-
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	-
HBCDD	25637-99 & 3194-55-6	247-148-4,	0.005	-
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	-
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	-
musk xylene	81-15-2	201-329-4	0.005	-
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	-
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.

Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	-
Anthracene oil	90640-80-5	292-602-7	0.05	-
Anthracene oil, paste, distn. Lights	84-74-2	201-557-4		
Anthracene oil, paste, fraction	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2		
Aluminosilicate, Ref. Cer. Fibres	-	650-017-00-8		
Zirconia Alum., Ref. Cer. Ribres	-	650-017-00-8		
Lead chromate	7758-97-6	231-846-0	0.005	N.D.
Lead chromate sulfate red	12656-85-8	235-759-9	0.005	N.D.
Lead chromate sulfate yellow	1344-37-2	215-693-7	0.005	N.D.
Acryamide	79-06-1	201-173-7	0.005	-
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	-
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05	-

Sub-Part Name: Ground Strap
Sub-Part Weight (kg): 0.00055

Base Material: SPCC

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	-
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	-
Dibutyl phthalate	84-74-2	201-557-4	0.005	-
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	-
HBCDD	25637-99 & 3194-55-6	247-148-4,	0.005	-
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	-
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	-
musk xylene	81-15-2	201-329-4	0.005	-
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	-
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	-
Anthracene oil	90640-80-5	292-602-7	0.05	-
Anthracene oil, paste, distn. Lights	84-74-2	201-557-4		
Anthracene oil, paste, fraction	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2		
Aluminosilicate, Ref. Cer. Fibres	-	650-017-00-8		
Zirconia Alum., Ref. Cer. Ribres	-	650-017-00-8		
Lead chromate	7758-97-6	231-846-0	0.005	N.D.
Lead chromate sulfate red	12656-85-8	235-759-9	0.005	N.D.
Lead chromate sulfate yellow	1344-37-2	215-693-7	0.005	N.D.
Acryamide	79-06-1	201-173-7	0.005	-
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	-
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05	-

- 1) The chemical analysis of Substance of Very High Concern (SVHC) is performed by means of current available analytical techniques against the list published by ECHA on 10-28-08, 01-13-10 & 3-30-10 and shall refer to <http://echa.europa.eu/chem.data/candidate.list.table.en.asp>. This list is under evaluation by ECHA and subject to change.
- 2) In accordance with EC regulation No. 1907/2006, any 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 is present in those articles in quantities totaling over one ton per producer or importer per year; d (b) the substance is present in those article above a concentration of 0.1% weight by weight (w/w).
- 3) Article 33 of EC regulation No. 1907/2006 requires suppliers 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 the substance.

Notes:

mg/kg = ppm; 0.1wt% = 1,000ppm
N.D. = Not Detected; DL = Detection Limit
SVHC = Substance of Very High Concern

U.S. references:

EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, EPA 3540C:1996, EPA 8270D:2007, DIN 38407-13, EN 14362-1%2:2003, EN 14372:2004, EPA 9056A:2007, EPA 3060A:1996 method. Analysis is performed by IC, UV, ICP-OES and GC-MS.