



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D
<i>* : Required Field</i>			

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2013-10-02
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Giovanni Giacopello	Representative Title	AMS & IPD Materials Declaration Champion
Representative Phone *	Refer to "Supplier Comment" section	Representative Email *	Refer to "Supplier Comment" section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/online_tech_support.html		

Uncertainty Statement

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Legal Statement

Supplier Acceptance *	true	Legal Declaration *	Standard
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Legal Statement

Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
	W1RJ*BR12SH3	A	CR1A	2013-10-02
Amount	UoM	Unit type	ST ECOPACK Grade	
4574.55	mg	Each	ECOPACK® 1	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
NAC	NAC	NAC		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable ; if coating is used o	NAC	NAC		



Package Designator	Size	Nbr of instances	Shape	
NAC	NAC	NAC	NAC	
Comment				

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	false
Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	false
Product(s) meets EU RoHS requirements by application of the selected exemption(s)	true
Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Product(s) is obsolete, no information is available	false
Product(s) is unknown, no information is available	false
Exemption Id.	Description
6c	Copper alloy containing up to 4 % lead by weight

QueryList :REACH-19 Dec 2012				
Query				Response
The product does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Diboron trioxide	1000 ppm	1.231		269

Material Composition Declaration						Mfr Item Name	W1R1*BR125H3					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in material (ppm)
Base	Other inorganic materials	554.9	mg	supplier	Base	Glass	65997-17-3		83.235	mg	150000	18195
Base				supplier	Base	Liquid Crystal Polymer	70679-92-4		443.92	mg	800000	97041
Base				supplier	Base	Antimony Trioxide	1309-64-4		27.745	mg	50000	6065
Pins	Other inorganic materials	157.48		supplier	Pins	Copper	7440-50-8		87.874	mg	558001	19209
Pins				supplier	Pins	Zinc	7440-66-6		61.669	mg	391599	13481
Pins				R	Pins	Lead	7439-92-1	Sc. Lead as an alloy	4.63	mg	29401	1012
Pins				supplier	Pins	Nickel	7440-02-0		2.457	mg	15602	537
Pins				supplier	Pins	Gold	7440-57-5		0.85	mg	5398	186
Encapsulation	Other inorganic materials	1127.9		supplier	Encapsulation	Bis F Epoxy Resin	54208-63-8		642.903	mg	570000	140539
Encapsulation				supplier	Encapsulation	Epoxyde Bisphenol A Resin	25068-38-6		42.8602	mg	38000	9369
Encapsulation				supplier	Encapsulation	Carbon Black	1333-86-4		2.2558	mg	2000	493
Encapsulation				supplier	Encapsulation	Calcium carbonate	1317-65-3		45.116	mg	40000	9862
Encapsulation				supplier	Encapsulation	Triethyl phosphate	78-40-0		22.558	mg	20000	4931
Encapsulation				supplier	Encapsulation	metal hydroxide	21645-51-2		22.558	mg	20000	4931
Encapsulation				supplier	Encapsulation	Kaolin	1332-58-7		45.116	mg	40000	9862
Encapsulation				supplier	Encapsulation	Nonyl-Phenol	84852-15-3		33.837	mg	30000	7397
Encapsulation				supplier	Encapsulation	Polyoxypropylenediamine	9046-10-0		270.696	mg	240000	59174
Housing	Other inorganic materials	995.09		supplier	Housing	Poly(butylene terephthalate)	30965-26-5		726.4157	mg	730000	158795
Housing				supplier	Housing	glass	65997-17-3		228.8707	mg	230000	50031
Housing				supplier	Housing	Antimony trioxide	1309-64-4		29.8527	mg	30000	6526
Housing				supplier	Housing	Tetrahydrofuran	109-99-9		4.97545	mg	5000	1088
Housing				supplier	Housing	Carbon black	1333-86-4		4.97545	mg	5000	1088
Battery	Other inorganic materials	1596.7		supplier	Battery	Iron	7439-89-6		782.4897941	mg	490067	171053
Battery				supplier	Battery	Chromium	7440-47-3		190.3395622	mg	119208	41608
Battery				supplier	Battery	Nickel	7440-02-0		84.58844306	mg	52977	18491
Battery				supplier	Battery	Carbon Monofluoride (CFx)	51311-17-2		174.4965906	mg	109286	38145
Battery				supplier	Battery	Propylene Carbonate(electrolyte salt)	108-32-7		119.4180578	mg	74791	26105
Battery				supplier	Battery	Polypropylene(grommet/separator)	9003-07-0		46.98735009	mg	29428	10271
Battery				supplier	Battery	Dimethoxythane	110-71-4		65.11939805	mg	40784	14235
Battery				supplier	Battery	Lithium metal	7439-93-2		35.87415941	mg	22468	7842
Battery				supplier	Battery	LiBFx	14283-07-9		15.30500822	mg	9585	3346
Battery				supplier	Battery	Carbon Black	1333-86-4		17.74211145	mg	11112	3878
Battery				supplier	Battery	Asphalt	8052-42-4		5.459112124	mg	3419	1193
Battery				supplier	Battery	SBR Dispersion	7.506277919		7.506277919	mg	4701	1641
Battery				supplier	Battery	Carbon Paint	Proprietary		17.54714319	mg	10990	3836
Battery				supplier	Battery	Titanium metal	7440-32-1		33.8269927	mg	21186	7395
Crystal	Other inorganic materials	142.481		supplier	Crystal Blank	Quartz (SiO2)	14808-60-7		4.7	mg	32987	1027
Crystal				supplier	Crystal Blank	Nickel	7440-02-0		6.683	mg	46904	1461
Crystal				supplier	Crystal Blank	Iron	7439-89-6		9.239	mg	64844	2020
Crystal				supplier	Crystal Blank	Manganese	7439-96-5		0.13	mg	912	28
Crystal				supplier	Crystal Blank	Chromium	7440-47-3		0.033	mg	232	7
Crystal				supplier	Crystal Blank	Silicon	7440-21-3		0.049	mg	344	11
Crystal				supplier	Crystal Blank	Cobalt	7440-48-4		0.163	mg	1144	36
Crystal				supplier	Crystal Blank	Carbon	7440-44-0		0.003	mg	21	1
Crystal				supplier	Base Glass	Silicon dioxide	7631-86-9		3.273	mg	22971	715
Crystal				supplier	Base Glass	Aluminum oxide	1344-28-1		0.311	mg	2183	68
Crystal				supplier	Base Glass	Diboron-trioxide	1303-86-2		1.231	mg	8640	269
Crystal				supplier	Base Glass	Barium oxide	1304-28-5		0.311	mg	2183	68
Crystal				supplier	Base Glass	Zinc Oxide	1314-13-2		0.018	mg	126	4
Crystal				supplier	Base Glass	Disodium-oxide	1313-59-3		0.311	mg	2183	68
Crystal				supplier	Base Glass	Dipotassium-oxide	12136-45-7		0.311	mg	2183	68
Crystal				supplier	Base Glass	Dilithium-oxide	12057-24-8		0.029	mg	204	6
Crystal				supplier	Base Glass	Iron-trioxide	1309-37-1		0.018	mg	126	4
Crystal				supplier	Base Glass	Chromium(III)oxide	1308-38-9		0.018	mg	126	4
Crystal				supplier	Base Glass	Fluorine	7782-41-4		0.029	mg	204	6
Crystal				supplier	Ink	Phenolic Resin	Proprietary		0.008	mg	56	2
Crystal				supplier	Ink	Carbon black	1333-86-4		0.002	mg	14	0
Crystal				supplier	Pins	Nickel	7440-02-0		5.335	mg	37444	1166
Crystal				supplier	Pins	Cobalt	7440-48-4		3.128	mg	21954	684

Crystal			supplier	Pins	Manganese	7439-96-5		0.074	mg	519	16
Crystal			supplier	Pins	Iron	7439-89-6		9.663	mg	67820	2112
Crystal			supplier	Plating	Copper	7440-50-8		0.81	mg	5685	177
Crystal			supplier	Plating	Tin	7440-02-0		1.23	mg	8633	269
Crystal			supplier	Can	Nickel	7440-02-0		16.082	mg	112871	3516
Crystal			supplier	Can	Copper	7440-50-8		57.181	mg	401324	12500
Crystal			supplier	Can	Manganese	7439-96-5		0.223	mg	1565	49
Crystal			supplier	Can	Iron	7439-89-6		0.179	mg	1256	39
Crystal			R	Can	Lead	7439-92-1		0.045	mg	316	10
Crystal			supplier	Can	Zinc	7440-66-6		15.635	mg	109734	3418
Crystal			supplier	Can Plating	Nickel	7440-02-0		5.455	mg	38286	1192
Crystal			supplier	Electrode	Silver	7440-22-4		0.031	mg	218	7
Crystal			supplier	Solder	Tin	7440-31-5		0.54	mg	3790	118