



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 *	26-07-2017
Company Unique ID	NL 008751171801		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	MDG MD CHAMPION	Representative Title	MDG MD 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/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
STM32F410C8U6	S1MI*458XXXA	A	998Z	26-07-2017
Amount		UoM	Unit type	ST ECOPACK Grade
97,90		mg	Each	ECOPACK® 2
Comment		ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable; if coating is used or other bulk termination	Tin (Sn), matte	Copper Alloy		



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Package Designator	Size	Nbr of instances	Shape	
QFN	7X7X0.55	48	No lead	
Comment	Package : A0B9 UFQFPN 7X7X0.55 48L 0.5 MM PITCH 8202210			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - 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
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : REACH-12th January 2017				
Query				Response
1 - Product(s) 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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	S1M1*458XXXA				6899569_0	495088_1
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	2,677	mg	Supplier	die	Silicon (Si)	7440-21-3		2,364	mg	883078	24148
				Supplier	metallization	Aluminium (Al)	7429-90-5		0,022	mg	8218	225
				Supplier	metallization	Copper (Cu)	7440-50-8		0,142	mg	53044	1451
				Supplier	metallization	Tantalum (Ta)	7440-25-7		0,020	mg	7471	204
				Supplier	metallization	Tungsten (W)	7440-33-7		0,064	mg	23907	654
				Supplier	Passivation	Silicon Nitride	12033-89-5		0,017	mg	6350	174
				Supplier	Passivation	Silicon Oxide	7631-86-9		0,048	mg	17931	490
				Supplier	Metals	Silver	7440-22-4		0,654	mg	704535	6679
				Supplier	Plastics/polymers	Bisphenol-F, epoxy resin	9003-36-5		0,045	mg	48437	459
				Supplier	Polymers	Fatty acids, polymers with epichlorohydrin	68475-94-5		0,045	mg	48437	459
Die Attach_EPOXY 8290_Henkel	M-011 Other inorganic materials	0,928	mg	Supplier	Metals	Silver	7440-22-4		0,654	mg	704535	6679
				Supplier	Plastics/polymers	Bisphenol-F, epoxy resin	9003-36-5		0,045	mg	48437	459
				Supplier	Polymers	Fatty acids, polymers with epichlorohydrin	68475-94-5		0,045	mg	48437	459
				Supplier	Organic Compounds	Gamma Butyrolactone	96-48-0		0,045	mg	48437	459
				Supplier	Epoxy Resin	Epoxy Resin	Proprietary		0,045	mg	48437	459
				Supplier	Amines	Poly(Oxy(methyl-1, 2-ethanediyl)	9046-10-0		0,045	mg	48437	459
				Supplier	Metallic compounds	Copper Oxide	1317-38-0		0,045	mg	48437	459
				Supplier	Organic Compounds	1,4-Bis(2,3-epoxypropoxy) butane	2425-79-8		0,004	mg	4844	46
				Supplier	Epoxy Resin	Epoxy Resin A	Proprietary		0,704	mg	19837	7193
				Supplier	Epoxy Resin	Epoxy Resin B	Proprietary		0,704	mg	19837	7193
Mold Compound_EME-G770_Sumitor	M-011 Other inorganic materials	36,233	mg	Supplier	Phenol Resin	Phenol Resin A	Proprietary		0,704	mg	19837	7193
				Supplier	Phenol Resin	Phenol Resin B	Proprietary		0,704	mg	19837	7193
				Supplier	Glass	Silica (Amorphous) A	60676-86-0		26,736	mg	732452	-726889
				Supplier	Glass	Silica (Amorphous) B	7631-86-9		5,778	mg	162767	59017
				Supplier	Metallic compounds	Metal Hydroxide	Proprietary		0,704	mg	19837	7193
				Supplier	Additives	Carbon Black	1333-86-4		0,199	mg	5595	2029
				Supplier	Metals	Silver	7440-22-4		0,467	mg	960000	4773
				Supplier	Metals	Others	Proprietary		0,019	mg	40000	199
				Supplier	Metals	Tin	7440-31-5		3,693	mg	1000000	37721
				Supplier	Metals	Nickel	7440-02-0		1,582	mg	29365	16161
Bonding wire_WIRE AG Si TYPE_MKE	Bonding Wire	0,487	mg	Supplier	Glass	Silicon	7440-21-3		0,350	mg	6500	3577
				Supplier	Metals	Magnesium	7439-95-4		0,084	mg	1565	861
				Supplier	Metals	Silver	7440-22-4		3,394	mg	63000	34673
				Supplier	Metals	Copper	7440-50-8		48,467	mg	899570	495088
				Supplier	Metals	Copper	7440-50-8		48,467	mg	899570	495088
Anode Ball_Pure Tin_Nuo Nengda	M-011 Other inorganic materials	3,693	mg	Supplier	Metals	Tin	7440-31-5		3,693	mg	1000000	37721
Lead frame_C7+AG_HDS	Copper & its alloys	53,878	mg	Supplier	Metals	Nickel	7440-02-0		1,582	mg	29365	16161
				Supplier	Glass	Silicon	7440-21-3		0,350	mg	6500	3577
				Supplier	Metals	Magnesium	7439-95-4		0,084	mg	1565	861
				Supplier	Metals	Silver	7440-22-4		3,394	mg	63000	34673
				Supplier	Metals	Copper	7440-50-8		48,467	mg	899570	495088
				Supplier	Metals	Copper	7440-50-8		48,467	mg	899570	495088