

Materials Declaration Form

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

Supplier Information								
Company Name *	STMicroelectronics	Response Date *	2017-06-07					
Company Unique ID	NL 008751171B01							
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	Inline Technical Support - STMicroelectronics : ttp://www.st.com/web/en/support/support.html							

Uncertainty Statement

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Legal Statement

Supplier Acceptance * true Legal Declaration * Standard

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 omprehensive 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					
STM32F411CEU7	S3MI*431XXXA	А	998Z	17-07-2017					
	Amount	UoM	Unit type	ST ECOPACK Grade					
	98	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	life.augmented				
Not Applicable ; if coating is used or other bulk termaination : add in comments		Copper Alloy		and a grant and a				

Package Designator	Size	Nbr of instances	Shape			
QFN	7X7X0.55	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 requiremen	it 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)								
3 - Product(s) meets EU RoHS requiremen	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								
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							
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application							

Material Composition Declaration note : Substance present with less	: 0.001mg will not be declared in thi	s document				Mfr Item Name	\$3MI*4	31XXXA			5000000,0	1000000,0
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	3,868	mg	supplier	die	Silicon (Si)	7440-21-3		3,414	mg	882627	34874
				supplier	metallization	Aluminium (AI)	7429-90-5		0,032	mg	8273	327
				supplier	metallization	Copper (Cu)	7440-50-8		0,206	mg	53257	2104
				supplier	metallization	Cobalt (Co)	7440-48-4		0,001	mg	259	10
				supplier	metallization	Tantalum (Ta)	7440-25-7		0,029	mg	7497	296
				supplier	metallization	Tungsten (W)	7440-33-7		0,092	mg	23785	940
				supplier	Passivation	Silicon Nitride	12033-89-5		0,024	mg	6205	245
				supplier	Passivation	Silicon Oxide	7631-86-9		0,070	mg	18097	715
Mold Compound_EME-G770_Sumiton	Other Organic Materials	35,970	mg	Supplier	Epoxy Resin	Epoxy Resin A	Proprietary		0,704	mg	19837	7193
				Supplier	Epoxy Resin	Epoxy Resin B	Proprietary		0,704	mg	19837	7193
				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		26,474	mg	732452	270426
				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
Bonding wire_WIRE AG SI TYPE_MKE	Bonding Wire	0,487	mg	Supplier	Metals	Silver	7440-22-4		0,467	mg	960000	4773
				Supplier	Metals	Others	Proprietary		0,019	mg	40000	199
Anode Ball_Pure Tin_Nuo Nengda	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