

Materials Declaration Form

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

Supplier Information							
Company Name *	STMicroelectronics	Response Date *	26-04-2019				
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 CHAM		MDG MD CHAMPION				
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section				
Supplier Comment	Online Technical Support - STMicroele http://www.st.com/web/en/support/s						

Uncertainty Statement

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Legal Sta	tement	
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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					
STM32F407VGT7 STM32F407VGT7TR	9A1L*413XXX2	А	959	26-04-2019					
	Amount	UoM	Unit type	ST ECOPACK Grade					
	681.44	mg	Each	ECOPACK® 2					
		ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame reta (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 termination	Matte Tin(Sn)	Copper Alloy					

Package Designator Size		Nbr of instances	Shape	
QFP	14x14x1.4	100	L Bend	
Comment	Package: 1L LQFP 100 14x14x1.4 1 00	86901		

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							
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							
Exemption Id. Description							

QueryList: REACH-27th June 2018							
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 Declara note : Substance present with	tion: less 0.001mg will not be declared in this o	document				Mfr Item Name	9A1L*41	3XXX2			6000000.0	995607.0
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	15.474	mg	supplier	die	Silicon (Si)	7440-21-3		14.897	mg	962712	21861
				supplier	metallization	Aluminium (Al)	7429-90-5		0.028	mg	1809	41
				supplier	metallization	Copper (Cu)	7440-50-8		0.244	mg	15768	358
				supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	65	1
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.079	mg	5105	116
				supplier	metallization	Titanium (Ti)	7440-32-6		0.003	mg	194	4
				supplier	metallization	Tungsten (W)	7440-33-7		0.002	mg	129	3
				supplier	Passivation	Silicon Nitride	12033-89-5		0.062	mg	4007	91
				supplier	Passivation	Silicon Oxide	7631-86-9		0.158	mg	10211	232
LEADFRAME	M-011 Other inorganic materials	156.345	mg	supplier	ALLOY	Copper (Cu)	7440-50-8		147.008	mg	940282	215731
				supplier	ALLOY	Iron (Fe)	7439-89-6		3.621	mg	23160	5314
				supplier	ALLOY	Iron Phosphide (Fe2P)	1310-43-6		0.045	mg	288	66
				supplier	ALLOY	Zinc (Zn)	7440-66-6		0.181	mg	1158	266
				supplier	SPOT	Silver (Ag)	7440-22-4		5.490	mg	35112	8056
DIE ATTACH	M-011 Other inorganic materials	2.904	mg	supplier	GLUE	Silver (Ag)	7440-22-4		2.483	mg	855000	3644
				supplier	GLUE	Dodecyl acrylate	2156-97-0		0.073	mg	25000	107
				supplier	GLUE	methylene diacrylate	42594-17-2		0.232	mg	80000	341
				supplier	GLUE	Diglycidylphenyl glycidyl ether	13561-08-5		0.058	mg	20000	85
				supplier	GLUE	Isobornyl Methacrylate	7534-94-3		0.029	mg	10000	43
				supplier	GLUE	dimethylbenzyl peroxide	80-43-3		0.029	mg	10000	43
BONDING WIRE	M-011 Other inorganic materials	1.534	mg	supplier	BONDING WIRE	Silver (Ag)	7440-22-4		1.480	mg	965000	2172
				supplier	BONDING WIRE	Gold (Au)	7440-57-5		0.008	mg	5000	11
				supplier	BONDING WIRE	Palladium (Pd)	7440-05-3		0.046	mg	30000	68
ENCAPSULATION	M-011 Other inorganic materials	499.726	mg	supplier	MOLDING COMPOUND	Silica, vitreous	60676-86-0		432.346	mg	865733	630066
				supplier	MOLDING COMPOUND	Epoxy Resin	Proprietary		37.158	mg	74044	54529
				supplier	MOLDING COMPOUND	Phenol Resin	Proprietary		24.772	mg	49363	36353
				supplier	MOLDING COMPOUND	3-Mercaptopropyl trimethoxysilane	4420-74-0		2.477	mg	4936	3635
				supplier	MOLDING COMPOUND	Quartz	14808-60-7		1.486	mg	2962	2181
				supplier	MOLDING COMPOUND	Carbon black	1333-86-4		1.486	mg	2962	2181
FINISHING	M-011 Other inorganic materials	5.457	mg	supplier	COATING	Tin (Sn)	7440-31-5		5.457	mg	1000000	8008