



## Materials Declaration Form

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

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	27-07-2017
<b>Company Unique ID</b>	NL 008751171801		
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Contact Phone *</b>	Refer to Supplier Comment section	<b>Contact Email *</b>	Refer to Supplier Comment section
<b>Authorized Representative *</b>	MDG MD CHAMPION	<b>Representative Title</b>	MDG MD CHAMPION
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty Statement**

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**Legal Statement**

<b>Supplier Acceptance *</b>	true	<b>Legal Declaration *</b>	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
STM32F405RGT7 STM32F405RGT7TR	S55W*413XXX2	A	998Z	27-07-2017
Amount	UoM	Unit type	ST ECOPACK Grade	
356,63	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	
QFP	10x10x1.4	64	L Bend	
Comment	Package : SW LQFP 64 10x10x1.4 1 0051434			

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	S55W*413XXX2				6000002.0	0.0
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	31,363	mg	supplier	die	Silicon (Si)	7440-21-3		30,786	mg	981603	86324
				supplier	metallization	Aluminium (Al)	7429-90-5		0,028	mg	893	79
				supplier	metallization	Copper (Cu)	7440-50-8		0,244	mg	7780	684
				supplier	metallization	Cobalt (Co)	7440-48-4		0,001	mg	32	3
				supplier	metallization	Tantalum (Ta)	7440-25-7		0,079	mg	2519	222
				supplier	metallization	Titanium (Ti)	7440-32-6		0,003	mg	96	8
				supplier	metallization	Tungsten (W)	7440-33-7		0,002	mg	64	6
				supplier	Passivation	Silicon Nitride	12033-89-5		0,062	mg	1977	174
				supplier	Passivation	Silicon Oxide	7631-86-9		0,158	mg	5038	443
				supplier	Metals	Silver	7440-22-4		1,576	mg	901000	4420
Die Attach Epoxy_ABLEBOND 3230_H	M-011 Other inorganic materials	1,750	mg	Supplier	Plastics/polymers	Highly cross-linked polymer	Proprietary		0,173	mg	99000	486
				Supplier	Plastics/polymers	Epoxy Resin A	Proprietary		5,092	mg	21000	14278
Mold Compound_EME-G631SHQ_Sun	M-011 Other inorganic materials	223,976	mg	Supplier	Plastics/polymers	Epoxy Resin B	Proprietary		5,092	mg	21000	14278
				Supplier	Plastics/polymers	Phenol Resin	Proprietary		13,579	mg	56000	38075
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		170,739	mg	780450	-521248
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		27,963	mg	115320	78407
				Supplier	Non-metals	Carbon Black	1333-86-4		1,511	mg	6230	4236
Wire_AG SI TYPE_MKE	Bonding Wire	0,607	mg	Supplier	Metals	Silver	7440-22-4		0,583	mg	960000	1635
				Supplier	Metals	Others	Proprietary		0,024	mg	40000	68
				Supplier	Metals	Tin	7440-31-5		1,438	mg	1000000	4032
Plating anode_Pure Tin_Nuo Nengda	M-011 Other inorganic materials	1,438	mg	Supplier	Metals	Iron	7439-89-6		2,132	mg	21865	5978
				Supplier	Non-metals	Phosphorus	7723-14-0		0,071	mg	730	200
Leadframe_C9+Ag_HDS	Copper & its alloys	97,500	mg	Supplier	Metals	Zinc	7440-66-6		0,110	mg	1125	308
				Supplier	Metals	Copper	7440-50-8		89,040	mg	913235	249669
				Supplier	Metals	Silver	7440-22-4		6,143	mg	63000	17224
				JIG-R	Metals	Lead	7439-92-1		0,004	mg	45	12