



## 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>	31-07-2017
<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
STM32F042K6T6	S05V*445XXXA	A	998Z	31-07-2017
	Amount	UoM	Unit type	ST ECOPACK Grade
	196,73	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		 life.augmented
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFP	7x7X1.4	32	L Bend	
Comment	Package : 5V LQFP 32 7x7x1.4 1 0060661			

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	S05V*445XXXA				6000000.0	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	6,690	mg	supplier	die	Silicon (Si)	7440-21-3		6,417	mg	959193	32619
				supplier	metallization	Aluminium (Al)	7429-90-5		0,019	mg	2840	97
				supplier	metallization	Copper (Cu)	7440-50-8		0,093	mg	13901	473
				supplier	metallization	Cobalt (Co)	7440-48-4		0,017	mg	2541	86
				supplier	metallization	Titanium (Ti)	7440-32-6		0,005	mg	747	25
				supplier	metallization	Tungsten (W)	7440-33-7		0,010	mg	1495	51
				supplier	Passivation	Silicon Nitride	12033-89-5		0,012	mg	1794	61
				supplier	Passivation	Silicon Oxide	7631-86-9		0,117	mg	17489	595
				Supplier	Metals	Silver	7440-22-4		0,550	mg	901000	2794
Die Attach Epoxy_ABLEBOND 3230_H	M-011 Other inorganic materials	0,610	mg	Supplier	Plastics/polymers	Highly cross-linked polymer	Proprietary		0,060	mg	99000	307
				Supplier	Plastics/polymers	Epoxy Resin A	Proprietary		0,978	mg	21000	-995030
Mold Compound_EME-G631SHQ_Sun	M-011 Other inorganic materials	118,405	mg	Supplier	Plastics/polymers	Epoxy Resin B	Proprietary		2,519	mg	21000	12804
				Supplier	Plastics/polymers	Phenol Resin	Proprietary		6,717	mg	56000	34144
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		93,612	mg	780451	475850
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		13,832	mg	115319	70311
Wire_AG SI TYPE_MKE	M-011 Other inorganic materials	0,272	mg	Supplier	Non-metals	Carbon Black	1333-86-4		0,747	mg	6230	3798
				Supplier	Metals	Silver	7440-22-4		0,261	mg	960000	1327
				Supplier	Metals	Others	Proprietary		0,011	mg	40000	55
Plating anode_Pure Tin_Nuo Nengda	M-011 Other inorganic materials	1,209	mg	Supplier	Metals	Tin	7440-31-5		1,209	mg	1000000	6146
Leadframe_C7+Ag_HDS	M-011 Other inorganic materials	69,540	mg	Supplier	Metals	Nickel	7440-02-0		2,042	mg	29365	10380
				Supplier	Glass	Silicon	7440-21-3		0,452	mg	6500	2298
				Supplier	Metals	Magnesium	7439-95-4		0,109	mg	1565	553
				Supplier	Metals	Silver	7440-22-4		4,381	mg	63000	22270
				Supplier	Metals	Copper	7440-50-8		62,556	mg	899570	317986