



## Materials Declaration Form

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

\*: Required Field

<b>Supplier Information</b>			
<b>Company Name *</b>	<b>STMicroelectronics</b>	<b>Response Date *</b>	<b>2018-05-31</b>
<b>Contact Name *</b>	Refer to Supplier Comment section	<b>Contact Email *</b>	Refer to Supplier Comment section
<b>Contact Phone *</b>	Refer to Supplier Comment section	<b>Authorized Representative *</b>	Refer to Supplier Comment section
<b>Authorized Representative *</b>	<b>Rossana Bonaccorso</b>	<b>Representative Title</b>	<b>ADG MD Champion</b>
<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>	<b>true</b>	<b>Legal Declaration *</b>	<b>Standard</b>
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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
STD6N62K3	XMDP*TZ63B6F	A	998G	2018-05-31
Amount	UoM	Unit type	ST ECOPACK Grade	
330.00	mg	Each	ECOPACK2	
	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	
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy		
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape
SIP	6.5-6.1-2.3	3	GULL WING
Comment	TO 252 DPAK		

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	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 25th May 2018			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	1.16	Die - Leadframe	3509
Lead	6.53	Soft solder	19794

QueryList : REACH-15th January 2018				
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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	XMDP*TZ6386F					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	7.787	mg	supplier	die	Silicon (Si)	7440-21-3		7.523	mg	966097	22797
				supplier	metallization	Aluminium (Al)	7429-90-5		0.106	mg	13612	321
				supplier	Passivation	Silicon Nitride	12033-89-5		0.036	mg	4623	109
				supplier	Passivation	Silicon Oxide	7631-86-9		0.056	mg	7192	170
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.004	mg	514	12
				supplier	back side metallization	Gold (Au)	7440-57-5		0.011	mg	1413	32
Leadframe	M-004 Copper and its alloys	166.052	mg	supplier	back side metallization	Nickel (Ni)	7440-02-0		0.051	mg	6549	155
				supplier	alloy	Copper (Cu)	7440-50-8		164.730	mg	992039	499182
				supplier	alloy	Iron (Fe)	7439-89-6		0.165	mg	993	500
Soft solder	Solder	7.062	mg	supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.050	mg	301	152
				supplier	metallization	Nickel (Ni)	7440-02-0		1.107	mg	6667	3355
				supplier	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	6.532	mg	924950	19794
Bonding wires	M-011 Other inorganic materials	0.547	mg	supplier	solder	Tin (Sn)	7440-31-5		0.353	mg	49986	1070
				supplier	solder	Silver (Ag)	7440-22-4		0.177	mg	25064	536
				supplier	wire	Aluminium (Al)	7429-90-5		0.547	mg	1000000	1658
Encapsulation	M-011 Other inorganic materials	147.507	mg	supplier	mold compound	Silica, vitreous	60676-86-0		129.069	mg	875003	391118
				supplier	mold compound	Tetramethyl-biphenyl-diy-bis oxymethylene-bi	EC 413-900-7		5.900	mg	39998	17879
				supplier	mold compound	Epoxy Resin	25068-38-6		4.425	mg	29999	13409
				supplier	mold compound	phenol resin	29690-82-2		7.375	mg	49998	22348
				supplier	mold compound	Carbon black	1333-86-4		0.738	mg	5002	2236
Connections coating	Solder	1.045	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167