



## 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>	2017-02-17
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Giovanni Giacopello	<b>Representative Title</b>	ADG 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 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
STD7LN80K5	XMDP*VK8GB52	A	3068	2017-02-17
Amount	UoM	Unit type	ST ECOPACK Grade	
330.00	mg	Each	ECOPACK2	

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	Comment	
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)

Query : California Prop65 list, dated 27th January 2017			
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	0.13	Die / Leadframe	385
Lead	4.67	Soft solder	14139

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	XMDP*VK8B52									
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Die	Other inorganic materials	3.930	mg	supplier	die	Silicon (Si)	7440-21-3		3.672	mg	934351	11127				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.096	mg	24427	291				
				supplier	metallization	Copper (Cu)	7440-50-8		0.035	mg	8906	106				
				supplier	Passivation	Silicon Nitride	12033-89-5		0.022	mg	5598	67				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.055	mg	13995	167				
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.003	mg	764	9				
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.035	mg	8906	106				
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.012	mg	3053	36				
				Leadframe	Copper & its alloys	165.043	mg	supplier	alloy	Copper (Cu)	7440-50-8		164.779	mg	998400	499330
								supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		0.165	mg	1000	500
supplier	metallization	Nickel (Ni)	7440-02-0						0.092	mg	558	279				
supplier	metallization	Phosphorus (P)	12185-10-3						0.007	mg	42	21				
Soft solder	Solder	4.886	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	4.666	mg	954973	14139				
				supplier	solder	Silver (Ag)	7440-22-4		0.122	mg	24969	370				
				supplier	solder	Tin (Sn)	7440-31-5		0.098	mg	20058	297				
				supplier	wire	Aluminium (Al)	7429-90-5		0.456	mg	995633	1382				
Bonding wires	Other inorganic materials	0.458	mg	supplier	wire	Magnesium (Mg)	7439-95-4		0.002	mg	4367	6				
				Encapsulation	Other Organic Materials	154.638	mg	supplier	mold compound	Silica, vitreous	60676-86-0		135.308	mg	874998	410024
								supplier	mold compound	Tetramethyl-biphenyl-diy-bis oxymethylene-b	EC 413-900-7		6.186	mg	40003	18745
								supplier	mold compound	Epoxy Resin	25068-38-6		4.639	mg	29999	14058
supplier	mold compound	phenol resin	29690-82-2		7.732	mg	50001	23430								
supplier	mold compound	Carbon black	1333-86-4		0.773	mg	4999	2342								
Connections coating	Solder	1.045	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167				