



## 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>	2016-01-05
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<b>Representative Title</b>	IPD 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>		

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Legal Statement			
<b>Supplier Acceptance *</b>	true	<b>Legal Declaration *</b>	Standard
<b>Legal Statement</b>	<p>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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STD15P6F6AG	TLDP*6P6AA62	A	SHENZHEN B/E	2016-01-05
Amount		UoM	Unit type	ST ECOPACK Grade
330.00		mg	Each	ECOPACK1

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	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	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	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 : REACH-17th December 2015				
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						Mfr Item Name	TLPD*6P6AA62					
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	0.685	mg	supplier	die	Silicon (Si)	7440-21-3		0.660	mg	963450	1997
				supplier	metallization	Aluminium (Al)	7429-90-5		0.008	mg	11696	24
				supplier	Passivation	Silicon Nitride	12033-89-5		0.004	mg	5848	12
				supplier	Passivation	Silicon Oxide	7631-86-9		0.004	mg	5848	12
				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.001	mg	1462	3
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.006	mg	8772	18
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.002	mg	2924	6
Leadframe	Copper & its alloys	166.150	mg	supplier	alloy	Copper (Cu)	7440-50-8		164.152	mg	987975	497430
				supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		0.330	mg	1986	1000
				supplier	alloy	Cobalt (Co)	7440-48-4		0.462	mg	2781	1400
				supplier	metallization	Nickel (Ni)	7440-02-0		1.199	mg	7216	3633
				supplier	metallization	Phosphorus (P)	12185-10-3		0.007	mg	42	21
Soft solder	Solder	0.998	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	0.953	mg	954910	2888
				supplier	solder	Silver (Ag)	7440-22-4		0.025	mg	25050	76
				supplier	solder	Tin (Sn)	7440-31-5		0.020	mg	20040	61
Bonding wires	Other inorganic materials	0.449	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.448	mg	998885	1358
				supplier	wire	Magnesium (Mg)	7439-95-4		0.001	mg	1115	2
Encapsulation	Other Organic Materials	160.673	mg	supplier	mold compound	Silica, vitreous	60676-86-0		129.503	mg	806003	392433
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		11.247	mg	69999	34082
				supplier	mold compound	Phenol resin	9003-35-4		6.427	mg	40000	19476
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		9.640	mg	59998	29212
				supplier	mold compound	Antimony Trioxide	1309-64-4		1.928	mg	12000	5842
				supplier	mold compound	Brominated Epoxy Resin	40039-93-8		1.125	mg	7002	3409
				supplier	mold compound	Carbon black	1333-86-4		0.803	mg	4998	2433
Connections coating	Solder	1.045	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167