



## 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

*\* : Required Field*

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2016-10-24
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<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
<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
STD130N6F7	TXDP*OD6DTC2	A	SHENZHEN B/E	2016-10-24
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		
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 – 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
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-20th June 2016				
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	TXDP*OD6DTC2					
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	1.265	mg	supplier	die	Silicon (Si)	7440-21-3		1.073	mg	848221	3252
				supplier	metallization	Aluminium (Al)	7429-90-5		0.071	mg	56126	215
				supplier	metallization	Titanium (Ti)	7440-32-6		0.008	mg	6325	24
				supplier	metallization	Tungsten (W)	7440-33-7		0.018	mg	14229	55
				supplier	metallization	Nickel (Ni)	7440-02-0		0.018	mg	14229	55
				supplier	metallization	Silver (Ag)	7440-22-4		0.010	mg	7905	30
				supplier	Passivation	Silicon Nitride	12033-89-5		0.009	mg	7115	27
				supplier	Passivation	Silicon Oxide	7631-86-9		0.017	mg	13439	52
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.002	mg	1581	6
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.029	mg	22925	88
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.010	mg	7905	30
				Leadframe	Copper & its alloys	166.150	mg	supplier	alloy	Copper (Cu)	7440-50-8	
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	3.930	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	3.753	mg	954962	11373
				supplier	solder	Silver (Ag)	7440-22-4		0.098	mg	24936	297
				supplier	solder	Tin (Sn)	7440-31-5		0.079	mg	20102	239
Bonding wires	Other inorganic materials	1.009	mg	supplier	wire	Aluminium (Al)	7429-90-5		1.005	mg	995838	3045
				supplier	wire	Magnesium (Mg)	7439-95-4		0.004	mg	4162	13
				supplier	mold compound	Silica, vitreous	60676-86-0		137.026	mg	875000	415230
Encapsulation	Other Organic Materials	156.601	mg	supplier	mold compound	Tetramethyl-biphenyl-diyl-bis oxymethylene-t	EC 413-900-7		6.264	mg	40000	18982
				supplier	mold compound	Epoxy Resin	25068-38-6		4.698	mg	30000	14236
				supplier	mold compound	phenol resin	29690-82-2		7.830	mg	50000	23727
				supplier	mold compound	Carbon black	1333-86-4		0.783	mg	5000	2373
Connections coating	Solder	1.045	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167