



## 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>

<b>Supplier Information</b>			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2016-06-03
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Giovanni Giacobello	<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**

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.


**Legal Statement**

<b>Supplier Acceptance *</b>	true	<b>Legal Declaration *</b>	Standard
------------------------------	------	----------------------------	----------

**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
ESDA6V1BC6	8BWB*DAXLC55	A	Z8GA	2016-06-03
Amount	UoM	Unit type	ST ECOPACK Grade	
14.00	mg	Each	ECOPACK® 2	

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	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOT	2.9X1.625X1.175	4	gull wing	
Comment	Package: SOT 23 - 6L			

QueryList : ROHS directive 2011/65/EU _ July 2011	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description

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	88WB*DAXLC55						
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	0.594	mg	supplier	die	Silicon (Si)	7440-21-3		0.513	mg	863636	36643	
				supplier	metallization	Aluminum (Al)	7429-90-5		0.070	mg	117845	5000	
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	10101	429	
				supplier	back side metallization	Gold (Au)	7440-57-5		0.001	mg	1684	71	
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.004	mg	6734	286	
Leadframe	Copper & its alloys	6.362	mg	supplier	Alloy	Copper(CU)	7440-50-8		6.048	mg	950644	432000	
				supplier	Alloy	Iron(Fe)	7439-89-6		0.146	mg	22949	10429	
				supplier	Alloy	Phosphorus (P)	12185-10-3		0.005	mg	786	357	
				supplier	Alloy	Zinc(Zn)	7440-66-6		0.008	mg	1257	571	
				supplier	Coating	Silver(Ag)	7440-22-4		0.155	mg	24363	11071	
Die attach	Other Organic Materials	0.046	mg	supplier	Glue	Silver(Ag)	7440-22-4		0.034	mg	739130	2429	
				supplier	Glue	Acrylate monomer	Proprietary		0.007	mg	152174	500	
				supplier	Glue	Heterocyclic organic compound	Proprietary		0.004	mg	86957	286	
				supplier	Glue	Treated silica	Proprietary		0.001	mg	21739	71	
Bonding	Other inorganic materials	0.033	mg	supplier	Bonding wire	Copper(CU)	7440-50-8		0.033	mg	1000000	2357	
Encapsulation	Other Organic Materials	6.763	mg	supplier	Molding compound	Silica Fused	60676-86-0		5.863	mg	866923	418786	
				supplier	Molding compound	Epoxy Resin	25068-38-6		0.541	mg	79994	38643	
				supplier	Molding compound	Phenol Resin	29690-82-2		0.338	mg	49978	24143	
				supplier	Molding compound	Carbon Black	1333-86-4		0.021	mg	3105	1500	
Finishing	Other inorganic materials	0.202	mg	supplier	Connections coating	Tin(Sn)	7440-31-5		0.202	mg	1000000	14429	