



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D
* : Required Field			

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2016-01-16
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Floriana San Biagio	Representative Title	AMS MD CHAMPION
Representative Phone *	Refer to Supplier Comment section		Refer to Supplier Comment section
Representative Email *	Refer to Supplier Comment section		
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement

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Legal Statement

Supplier Acceptance *	true	Legal Declaration *	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 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
	IDK7*V324AS6	A	BO2A	2016-01-16
Amount	UoM	Unit type	ST ECOPACK Grade	
130.00	mg	Each	ECOPACK® 3	
	Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony		

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	Nicke/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	8.6x3.9x1.52	14	gull wing	
Comment	Package: K7 SO 14 .15 TO JEDEC MS-012; MDF valid for LMV324IYDT			

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
Exemption Id.	Description

QueryList : REACH-15th June 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	IDK7*V324A56					
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	2.981	mg	supplier	die	Silicon (Si)	7440-21-3		2.951	mg	989936	22700
				supplier	metallization	Aluminium (Al)	7429-90-5		0.010	mg	3355	77
				supplier	Passivation	Silicon Nitride	12033-89-5		0.008	mg	2684	62
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	2013	46
				supplier	glass coating	Glass: Silicon Dioxide	7631-86-9		0.006	mg	2013	46
Leadframe	Copper & its alloys	35.076	mg	supplier	alloy	Copper (Cu)	7440-50-8		33.886	mg	966074	260662
				supplier	alloy	Iron (Fe)	7439-89-6		0.797	mg	22722	6131
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.048	mg	1368	369
				supplier	alloy	Zinc (Zn)	7440-66-6		0.042	mg	1197	323
				supplier	metallization	Nickel (Ni)	7440-02-0		0.278	mg	7926	2138
				supplier	metallization	Palladium (Pd)	7440-05-3		0.009	mg	257	69
				supplier	metallization	Gold (Au)	7440-57-5		0.008	mg	228	62
				supplier	metallization	Silver (Ag)	7440-22-4		0.008	mg	228	62
Die attach	Other Organic Materials	1.067	mg	supplier	glue	Silver (Ag)	7440-22-4		0.971	mg	910028	7469
				supplier	glue	acrylate	Proprietary		0.053	mg	49672	408
				supplier	glue	Methacrylate	Proprietary		0.043	mg	40300	331
Bonding wires	Copper & its alloys	0.101	mg	supplier	wire	Copper (Cu)	7440-50-8		0.101	mg	1000000	777
Encapsulation	Other Organic Materials	90.775	mg	supplier	mold compound	Silica, vitreous	60676-86-0		78.611	mg	865998	604700
				supplier	mold compound	Epoxy Resin	Proprietary		6.808	mg	74999	52369
				supplier	mold compound	Phenol Resin	Proprietary		4.539	mg	50003	34915
				supplier	mold compound	Carbon black	1333-86-4		0.454	mg	5001	3492
				supplier	mold compound	Bismuth (Bi)	7440-69-9		0.363	mg	3999	2792