

Materials Declaration Form

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

Supplier Information									
Company Name *	STMicroelectronics	Response Date *	2017-07-20						
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section						
Authorized Representative *	Giovanni Giacopello	Representative Title	ADG MD CHAMPION						
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section						
Sunnlier 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

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								
ESDA37LY	AJWS*TUY36VC	А	Z55A	2017-07-20				
	Amount	UoM	Unit type	ST ECOPACK Grade				
	9.80	mg	Each	ECOPACK® 2				

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	life.augmented			
NAC	Tin (Sn), matte	Alloy 42		me.aagmemea			

Package Designator	Size	Nbr of instances	Shape	
DSO	2.75 - 1.2 - 0.89	3	gull wing	
Comment	Package: SOT 23 ANODE COMMUNE			

Query							
- Product(s) meets EU RoHS requiremen	It 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)							
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)							
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions							
5 - Product(s) is obsolete, no information is available							
- Product(s) is unknown, no information	is available	false					
Exemption Id. Description							
Exemption Id. Description							

Query : California Prop65 list, dated 27th January 2017						
Query						
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen						
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen						
Substance amount in product (mg) Application						
Nickel 1.16 Die - Leadframe						

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								
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application								

Material Composition Declaration	Material Composition Declaration						AJWS*1	UY36VC				
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	0.115	mg	supplier	die	Silicon (Si)	7440-21-3		0.105	mg	913043	10714
				supplier	metallization	Aluminium (Al)	7429-90-5		0.005	mg	43478	510
				supplier	metallization	Copper (Cu)	7440-50-8		0.001	mg	8696	102
				supplier	Passivation	Silicon Oxide	7631-86-9		0.003	mg	26087	306
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.001	mg	8696	102
Leadframe	Copper & its alloys	2.948	mg	supplier	alloy	Iron (Fe)	7439-89-6		1.630	mg	552917	166327
				supplier	alloy	Nickel (Ni)	7440-02-0		1.161	mg	393826	118469
				supplier	alloy	Manganese (Mn)	7439-96-5		0.017	mg	5767	1735
				supplier	alloy	Chromium (Cr)	7440-47-3		0.002	mg	678	204
				supplier	alloy	Cobalt (Co)	7440-48-4		0.014	mg	4749	1429
				supplier	alloy	Silicon (Si)	7440-21-3		0.005	mg	1696	510
				supplier	metallization	Silver (Ag)	7440-22-4		0.119	mg	40366	12143
Die attach	Other inorganic materials	0.079	mg	supplier	glue or tape (choose)	Silver (Ag)	7440-22-4		0.059	mg	746835	6020
				supplier	glue or tape	Bis F Epoxy Resin	28064-14-4		0.012	mg	151899	1224
				supplier	glue or tape	1,4-bis(2,3-epoxypropoxy)butane	2425-79-8		0.006	mg	75949	612
				supplier	glue or tape	Aromatic amine	Proprietary		0.002	mg	25316	204
Bonding wires	Other inorganic materials	0.013	mg	supplier	wire	Copper (Cu)	7440-50-8		0.013	mg	1000000	1327
Encapsulation	Other inorganic materials	6.348	mg	supplier	mold compound	Silicon dioxide	60676-86-0		5.541	mg	872873	565408
				supplier	mold compound	Epoxy Resin	29690-82-2		0.318	mg	50095	32449
				supplier	mold compound	Phenol Resin	26834-02-6		0.318	mg	50095	32449
				supplier	mold compound	Aromatic poly-phosphate	Proprietary		0.158	mg	24890	16122
				supplier	mold compound	Carbon black	1333-86-4		0.013	mg	2048	1327
Connections coating	Solder	0.297	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.297	mg	1000000	30306