



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 *	2020-01-14
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Authorized Representative *	Refer to Supplier Comment section
Authorized Representative *	Floriana SAN BIAGIO	Representative Title	AMS MD CHAMPION
Representative Phone *	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

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
0	DZDS*S6LAESY	A	9992-ZS1A	2020-01-14
Amount	UoM	Unit type	ST ECOPACK Grade	
24	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		
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	0	

Package Designator	Size	Nbr of instances	Shape
SOJ	3x3	8	J bend
Comment	E3 MSOP/TSSOP 8 BODY3.00 PITCH0.65; MDF is valid for STM6905SYEDS6F		

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 2015	
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 : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : California Prop65 list, dated 13th September 2019			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.12	Leadframe	4935

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014				
Query				Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products				FALSE
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products				FALSE
Hasardous substance				
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE
O	O	O	O	O

QueryList : REACH-16th July 2019				
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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update				
Query				Response
The Product does contain at least one of the substances listed in Chemical Control Act				NO
Substance	Homogeneous Material impacted	Content in Homogeneous Material (mg)	Concentration in the material(%)	Application Purpose

Material Composition Declaration :						Mfr Item Name	DZDS*56LAESY				4999792.0	999914.0
note : Substance present with less 0.001mg will not be declared in this document												
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	0.788	mg	supplier	die	Silicon(Si)	7440-21-3		0.767	mg	973350	32349
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.004	mg	5076	169
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.002	mg	2538	84
				supplier	metallisation	Tungsten(W)	7440-33-7		0.001	mg	1269	42
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.002	mg	2538	84
				supplier	passivation	Silicon oxide	7631-86-9		0.012	mg	15228	506
Leadframe	M-004 Copper and its alloys	9.696	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		9.322	mg	961427	393167
				supplier	alloy & coating	Nickel(Ni)	7440-02-0		0.117	mg	12067	4935
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.230	mg	23721	9701
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.013	mg	1341	548
				supplier	alloy & coating	Palladium(Pd)	7440-05-3		0.010	mg	1031	422
				supplier	alloy & coating	Gold(Au)	7440-57-5		0.002	mg	206	84
Die attach	M-015 Other organic materials	0.384	mg	supplier	glue	Silver (Ag)	7440-22-4		0.307	mg	799479	12948
				supplier	glue	Epoxy resin	Proprietary		0.058	mg	151042	2446
				supplier	glue	Aromatic Amine	Proprietary		0.019	mg	49479	801
Bonding wires	M-008 Precious metals	0.313	mg	supplier	wire	Gold (Au)	7440-57-5		0.313	mg	1000000	13201
Encapsulation	M-015 Other organic materials	12.529	mg	supplier	mold compound	Silica Fused	60676-86-0		11.144	mg	889456	470013
				supplier	mold compound	Epoxy Resin	Proprietary		0.541	mg	43180	22817
				supplier	mold compound	Epoxy, Cresol Novolac	29690-82-2		0.206	mg	16442	8688
				supplier	mold compound	Phenol Resin	Proprietary		0.600	mg	47889	25306
				supplier	mold compound	Carbon Black	1333-86-4		0.038	mg	3033	1603