



## Material declaration form

General information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier information			
Company name*	STMicroelectronics	Response date*	2023-06-09
Authorized representative*	Floriana SAN BIAGIO	Representative title	AMS Material Declaration Champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	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**

Supplier acceptance *	true	Legal declaration*	Standard
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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
	N7BB*MY2UACC	A	997G	2023-06-09
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	12.0	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
1	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Nickel/Gold (Ni/Au), electrolytic	Copper Alloy	0	
Package designator	Package Size	Number of instances	Shape	
LGA	2.5 x 3	14	Flat	
Comment	B0G2 VLGA 2.5X3X0.74MAX 14L PITCH 0.5; MDF is valid for LSM6DSV16BX			



QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		Response
<b>QUERY</b>		<b>Response</b>
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
Exemption Id.	Description	
7c-I	7c-I-Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	

QueryList : California Prop65 list, dated 27th Jan 2023			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	0.095	substrate	7917
Lead	0.197	die (Pb content in Lead-Borate)	16433
Lead-Borate Glass	0.327	die	27250
Lead Zirconate Titanate (PZT)	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0
Gallium Arsenide	0.000		0

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014					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
Hazardous substance					
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE	
X	O	O	O	O	
Dies is Homogeneous Material containing Lead					

QueryList : REACH-17th Jan 2023				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 Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in homogeneous material (mg)	Application - homogeneous material	ppm in homogeneous material

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update		Response
The Product does contain at least one of the substances listed in Chemical Control Act		false




QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	false

QueryList:Stockholm Convention Persistent Organic Pollutants	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true



Material composition declaration : note : Substance present with less 0.001mg will not be declared in this document						Manufacturing item name	N7BB*MY2UACC		11.9998		5999324.0	999961.0				
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Dies	M-011 Other inorganic materials	5.424	mg	supplier	die	Silicon(Si)	7440-21-3		4.921	mg	907264	410083				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.019	mg	3503	1583				
				supplier	metallisation	Copper(Cu)	7440-50-8		0.023	mg	4240	1917				
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.014	mg	2581	1167				
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.005	mg	922	417				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.007	mg	1291	583				
				supplier	metallisation	Tungsten(W)	7440-33-7		0.003	mg	553	250				
				supplier	metallisation	Zirconium(Zr)	7440-67-7		0.002	mg	369	167				
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-6		0.012	mg	2212	1000				
				supplier	passivation	Silicon Oxide	7631-86-9		0.090	mg	16593	7500				
				supplier	glass	Aluminium Oxide	1344-28-1		0.001	mg	184	83				
							JIG-R & California 65	glass	Lead-Borate Glass	65997-18-4	7c-I-Electrical and electron	0.327	mg	60288	27250	
				Substrate	M-015 Other organic materials	1.926	mg	supplier	laminare	Acrylic resin	9003-01-4		0.165	mg	85670	13750
								supplier	laminare	Barium sulfate	7727-43-7		0.070	mg	36345	5833
								supplier	laminare	epoxy resin	85954-11-6		0.061	mg	31672	5083
supplier	laminare	Talc	14807-96-6						0.042	mg	21807	3500				
supplier	laminare	Aromatic hydrocarbon	64742-94-5						0.019	mg	9865	1583				
supplier	laminare	Methoxymethylethoxy propanol	34590-94-8						0.047	mg	24403	3917				
supplier	laminare	Acetate compound	112-15-2						0.047	mg	24403	3917				
supplier	laminare	DPMA	88917-22-0						0.009	mg	4673	750				
supplier	laminare	Diphenyl-trimethylbenzoyl phosphine oxide	75980-60-8						0.007	mg	3634	583				
	M-004 Copper and its alloys	supplier	laminare					Copper(Cu)	7440-50-8		1.347	mg	699377	112250		
	M-006 Nickel and its alloys	supplier	laminare					Nickel(Ni)	7440-02-0		0.095	mg	49325	7917		
		supplier	laminare					Gold(Au)	7440-57-5		0.017	mg	8827	1417		
Die attach	M-015 Other organic materials	0.369	mg					supplier	glue	Acrylic resin	538311-13-6		0.129	mg	349763	10755
								supplier	glue	Epoxy resin A	29690-82-2		0.035	mg	94936	2919
								supplier	glue	Epoxy resin E	25068-38-6		0.203	mg	549627	16901
				supplier	glue	Additive	proprietary		0.002	mg	4987	154				
Die attach 2	M-015 Other organic materials	0.451	mg	supplier	glue	Acrylic resin	538311-13-6		0.072	mg	160000	6009				
				supplier	glue	Epoxy resin B	119345-05-0		0.050	mg	110000	4131				
				supplier	glue	Epoxy resin A	29690-82-2		0.115	mg	255000	9577				
				supplier	glue	Epoxy resin E	25068-38-6		0.072	mg	160000	6009				
				supplier	glue	Silica	7631-86-9		0.140	mg	310000	11643				
				supplier	glue	Additive	proprietary		0.002	mg	5000	188				
Bonding wire	M-008 Precious metals	0.093	mg	supplier	wire	Gold(Au)	7440-57-5		0.093	mg	1000000	7715				
Encapsulation	M-015 Other organic materials	3.738	mg	supplier	mold compound	Solid Epoxy Resin	proprietary		0.149	mg	39763	12385				
				supplier	mold compound	Hardener	proprietary		0.149	mg	39763	12385				
				supplier	mold compound	Carbon black	1333-86-4		0.017	mg	4418	1376				
				supplier	mold compound	Amorphous silica	60676-86-0		3.424	mg	916056	285334				