

Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute	VEISION	4
Sectionals *	Material Info	Subsectionals *	A-D
	Manufacturing Info		* : Required Field

Supplier Information						
Company Name *	STMicroelectronics	Response Date *	2022-03-10			
Company Unique ID	NL 008751171B01					
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section			
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section			
Authorized Representative *	giovanni giacopello	Representative Title	ADG Material Declaration champion			
Authorized hepresentative	giovanni giacopeno	Representative rice				
Representative Phone *		Representative Email *	Refer to Supplier Comment section			

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		
L99DZ100GPTR	NF9J*UBF9ABP	А	959	2022-03-10		
	Amount	UoM	Unit type	ST ECOPACK Grade		
	260	mg	Each	ECOPACK® 2		
	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)					

Manufacturing information					
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles			
3	260	3			
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life.augmented	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00813279		

Package Designator	Package Size	Nbr of instances	Shape	
QFP	10.00,10.00,1.40	64	gull wing	
Comment	LQFP 64 10x10x1.4 1.0 ExPad Down. MDF valid fo	r CPs: L99DZ100GP,L99DZ100GPTR		

QueryList: RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015					
	Query				
1 - Product(s) meets EU RoHS requirement v	- Product(s) meets EU RoHS requirement without any exemptions				
2 - Product(s) meets EU RoHS requirements	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	3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s) false				
4 - Product(s) does not meet EU RoHS requir	4 - Product(s) does not meet EU RoHS requirements and is not under exemptions				
Exemption Id.	Exemption Id. Description				
,					

QueryList : ELV directive : 2000/53/EC a	mended 2020/363_March 2020				
	Query Response				
1 - Product(s) meets EU ELV requirements w	1 - Product(s) meets EU ELV requirements without any exemptions true				
2 - Product(s) meets EU RoHS requirements	2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s) false				
Exemption Id.	Exemption Id. Description				

QueryList: California Prop65 list, dated 17th Dec 2021					
Query	Response				
1 - The product does not contain identified substance from California Prop 65 List, no exposure to	false				
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consu	true				
Substance	ppm in product				
Nickel	781				

QueryList: Chinese RoHS, references: S/T 11364 – 2014 and GBT 26572 – 2014						
	Response					
1 - Product(s) requires marking for the p Measures for Administration of the con	false					
2 - Product(s) is eligible for marking with	false					
		Hasardous substance				
Lead (Pb)	PBB & PBDE					
0	0 0 0					

QueryList : REACH-17 Jan 2022						
	Query					
1 - Product(s) does not contain REACH Subst	1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH					
CategoryLevel_Name	CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application					
2 - Product(s) does not contain REACH S within REACH	substances Of Very High Concern in any Embedde	d article nor Homogeneous Material a	bove the limits per the definition	true		
CategoryLevel_Name	ppm in Article /Homogeneous Material					

QueryList : Responsible metals sourcing			
Query	Response		
The component is containing at least one of the following metals: Cobalt, Gold, Tantalum, Tin, Tungsten.	true		
The following metals are present is the component :	Cobalt, Gold, Tin, Tungsten,		
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .			

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

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

Stockholm Convention Persistent Organic Pollutants							
Query	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					Mfr Item Name	NF9J*UBF9ABP						
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	21.553	mg	supplier	die	Silicon(Si)	7440-21-3		19.412	mg	900664	74662
				supplier	metallisation	Aluminium(AI)	7429-90-5		0.046	mg	2134	177
				supplier	metallisation	Chromium(Cr)	7440-47-3		0.011	mg	510	42
				supplier	metallisation	Copper(Cu)	7440-50-8		1.202	mg	55769	4623
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.002	mg	93	8
				supplier	metallisation	Gold(Au)	7440-57-5		0.030	mg	1392	115
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.203	mg	9419	781
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.047	mg	2181	181
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.008	mg	371	31
				supplier	metallisation	Tungsten(W)	7440-33-7		0.068	mg	3155	262
				supplier	metallisation	Vanadium(V)	7440-62-2		0.003	mg	139	12
				supplier	passivation	Silicon oxide	7631-86-9		0.298	mg	13826	1146
				supplier	polymer coating	polyimide	proprietary		0.223	mg	10347	858
Leadframe	M-004 Copper and its alloys	111.959	mg	supplier	alloy	Copper(Cu)	7440-50-8		109.104	mg	974500	419631
				supplier	alloy	Iron(Fe)	7439-89-6		2.566	mg	22919	9869
				supplier	alloy	Iron phosphide	1310-43-6		0.155	mg	1384	596
				supplier	alloy	Zinc(Zn)	7440-66-6		0.134	mg	1197	515
Die attach	M-011 Other inorganic materials	2.491	mg	supplier	glue	Silver(Ag)	7440-22-4		2.221	mg	891610	8542
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.187	mg	75070	719
				supplier	glue	Bismaleimide resin	proprietary		0.075	mg	30108	288
				supplier	glue	Epoxycyclohexylethyltrimethoxysilane	3388-04-3		0.008	mg	3212	31
Bonding wires	M-004 Copper and its alloys	2.840	mg	supplier	wire	Copper(Cu)	7440-50-8		2.840	mg	1000000	10923
Bonding wires 2	M-004 Copper and its alloys	2.088	mg	supplier	wire	Copper(Cu)	7440-50-8		2.088	mg	1000000	8031
Encapsulation	M-011 Other inorganic materials	115.504	mg	supplier	mold compound	Silica vitreous	60676-86-0		94.078	mg	814499	361838
				supplier	mold compound	Silicon oxide	7631-86-9		8.663	mg	75002	33319
				supplier	mold compound	Epoxy type resin	proprietary		8.663	mg	75002	33319
				supplier	mold compound	Phenol type resin	proprietary		3.465	mg	29999	13327
				supplier	mold compound	Carbon black	1333-86-4		0.635	mg	5498	2442
Connections coating	Solder	3.565	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		3.565	mg	1000000	13712