



Material declaration form

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

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2023-02-07
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	ADGMaterial Declaration 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
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	Manufacturing site	date
STGWA35IH135DF2	TDWT*RHL7V8F	A	998G	2023-02-07
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	6100.00	mg	Each	ECOPACK® 2
Identity	Authority			
Comment	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 temperature	Number of reflow cycles		
Not Applicable	Not Applicable	,		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00942788	
Package designator	Package size	Number of instances	Shape	
SIP	15.80x21.00x5.00	3	Through-hole	
Comment	TO-247 LONG LEADS			



QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		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 2020/363_March 2020		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 25th Feb 2022			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	11.306	die - leadframe	1853

QueryList : REACH-17 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 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 : Responsible metals sourcing	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 :	Tin, Tungsten,

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 : 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

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						Mfr Item Name	TDWT*RHL7V8F									
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	13.315	mg	supplier	die	Silicon(Si)	7440-21-3		11.969	mg	898910	1964				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.442	mg	33196	72				
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.252	mg	18926	41				
				supplier	metallisation	Silver(Ag)	7440-22-4		0.193	mg	14495	32				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.024	mg	1802	4				
				supplier	metallisation	Tungsten(W)	7440-33-7		0.155	mg	11641	25				
				supplier	metallisation	Vanadium(V)	7440-62-2		0.008	mg	601	1				
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.036	mg	2704	6				
				supplier	passivation	Silicon oxide	7631-86-9		0.151	mg	11341	25				
				supplier	glass	Borosilicateglass	65997-17-3		0.085	mg	6384	14				
				Leadframe	M-004 Copper and its alloys	2719.623	mg	supplier	alloy	Copper(Cu)	7440-50-8		2705.048	mg	994640	443450
								supplier	alloy	Iron phosphide	26508-33-8		2.275	mg	837	373
								supplier	alloy	Iron(Fe)	7439-89-6		1.246	mg	458	204
supplier	metallization	Nickel (Ni)	7440-02-0						11.054	mg	4065	1812				
supplier	alloy	Aluminum	7429-90-5						0.001	mg	100000	1319				
Soft solder	Solder	8.396	mg	supplier	solder	Tin(Sn)	7440-31-5		5.457	mg	649952	895				
				supplier	solder	Silver(Ag)	7440-22-4		2.099	mg	250000	344				
				supplier	solder	Antimony (Sb)	7440-36-0		0.840	mg	100048	138				
Bonding wires	M-003 Aluminum and its alloys	8.044	mg	supplier	wire	Aluminium (Al)	7429-90-5		8.044	mg	1000000	1319				
Bonding wires 2	M-003 Aluminum and its alloys	0.161	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.161	mg	1000000	26				
Encapsulation	M-011 Other inorganic materials	3344.264	mg	supplier	mold compound	Silica vitreous	60676-86-0		2541.641	mg	760000	416662				
				supplier	mold compound	Epoxy Cresol Novolac	29690-82-2		518.361	mg	155000	84977				
				supplier	mold compound	Phenolic resin	9003-35-4		100.328	mg	30000	16447				
				supplier	mold compound	Metal hydroxide	21645-51-2		167.213	mg	50000	27412				
				supplier	mold compound	Carbon black	1333-86-4		16.721	mg	5000	2741				
Connections coating	Solder	6.197	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		6.197	mg	1000000	1016				