



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*	2024-03-18
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
SCTHC250N120G3AG	T1M8*BRJNMV2	A	3068	2024-03-18
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	7922.00	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		
3	210	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Silver (Ag) plating	Copper Alloy	DM00994795	
Package designator	Package size	Number of instances	Shape	
SMO-THO	18.80x28.00x4.10	4	Mixed	
Comment	STPAK HC			



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		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	
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	

QueryList : ELV directive : 2000/53/EC amended 2020/363_March 2020		Response
1 - Product(s) meets EU ELV requirements without any exemptions		false
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)		true
Exemption Id.	Description	
8(e)	8(e) - Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	

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	1.082	die - solder paste	137
Lead	15.834	soft solder	1999

QueryList : REACH-23rd January 2024				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				false
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	15.834	Soft solder	1999
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				false
CategoryLevel_Name	CategoryLevel_Threshold	Amount in embedded article / Homogeneous material (mg)	Application - article / Homogeneous material	ppm in article /Homogeneous material
Lead	1000 ppm	15.834	Soft solder	954948

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,

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

QueryList : EUSRR Directive		Response
Product contains hazardous materials listed in EUSRR Annex II		True
The material present in the product is:		Lead

PFAS/PTFE Restriction		Response
Product contains Per- and Polyfluorinated Substance		False

BPA Restriction		Response
Product contains Bisphenol A (Isopropylidenediphenol)		False



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	T1M8*BRJNMV2									
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)				
Die	M-011 Other inorganic materials	29.882	mg	supplier	die	Silicium carbide	409-21-2		27.703	mg	927079	3494				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.505	mg	16900	64				
				supplier	metallisation	Silicon(Si)	7440-21-3		0.121	mg	4049	15				
				supplier	metallisation	Copper(Cu)	7440-50-8		0.069	mg	2309	9				
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.433	mg	14490	55				
				supplier	metallisation	Silver(Ag)	7440-22-4		0.443	mg	14825	56				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.053	mg	1774	7				
				supplier	metallisation	Vanadium(V)	7440-62-2		0.014	mg	469	2				
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.081	mg	2711	10				
				supplier	passivation	Silicon oxide	7631-86-9		0.131	mg	4384	17				
				supplier	polymer coating	polyimide	proprietary		0.329	mg	11010	42				
				Leadframe	M-004 Copper and its alloys	1890.261	mg	supplier	alloy	Copper(Cu)	7440-50-8		1885.586	mg	997527	238019
								supplier	alloy	Iron phosphide	26508-33-8		1.586	mg	839	200
supplier	alloy	Iron(Fe)	7439-89-6						0.869	mg	460	110				
supplier	metallization	Silver (Ag)	7440-22-4						2.220	mg	1174	280				
supplier	SVHC	Lead(Pb)	7439-92-1					7a-Lead in high melting temperat	15.834	mg	954948	1999				
Soft solder	Solder	16.581	mg	supplier	solder	Silver(Ag)	7440-22-4		0.415	mg	25029	52				
				supplier	solder	Tin(Sn)	7440-31-5		0.332	mg	20023	42				
Bonding wires	M-003 Aluminum and its alloys	0.800	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.800	mg	1000000	101				
Encapsulation	M-011 Other inorganic materials	1843.821	mg	supplier	mold compound	Silica vitreous	60676-86-0		1382.866	mg	750000	174560				
				supplier	mold compound	Silica	7631-86-9		184.382	mg	100000	23275				
				supplier	mold compound	Epoxy resin	25068-38-6		184.382	mg	100000	23275				
solder paste	Solder	8.655	mg	supplier	mold compound	Phenol resin	29690-82-2		92.191	mg	50000	11637				
				supplier	solder	Silver(Ag)	7440-22-4		6.924	mg	800000	874				
				supplier	solder	Nickel(Ni)	7440-02-0		0.649	mg	74986	82				
Ceramic base	M-010 Ceramics / glass	4132.000	mg	supplier	solder	other	proprietary		1.082	mg	125014	137				
				supplier	ceramic	Alumina	1344-28-1		319.817	mg	77400	40371				
				supplier	metallization	Copper(Cu)	7440-50-8		3809.704	mg	922000	480902				
				supplier	metallization	Silver (Ag)	7440-22-4		2.479	mg	600	313				