



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*	2023-09-05
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*	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 : 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
	13I3*VR25FC6	A	73RO	2023-09-05
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	833	mg	Each	ECOPACK® 3

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	Not Applicable	NAC	,



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 21st Apr 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	136.132	base/lid	163469
Lead	0.000		0
Lead-Borate Glass	0.000		0
Lead Zirconate Titanate	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0

QueryList : REACH-14th June 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				false
CategoryLevel_Name	CategoryLevel_Threshold	Amount in embedded article / Homogeneous material (mg)	Application - article / Homogeneous material	ppm in article /Homogeneous material
4-Nonylphenol, branched and linear	1000 ppm	0.016	Die attach	15038
,				

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 :		Cobalt, Gold, 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	13I3*VR25FC6		832.7670		5000001.0	999999.0				
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)				
Die	M-011 Other inorganic materials	9.442	mg	supplier	die	Silicon(Si)	7440-21-3		9.385	mg	993963	11270				
				supplier	metallisation	Aluminium(AI)	7429-90-5		0.025	mg	2648	30				
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.018	mg	1906	22				
				supplier	passivation	Silicon oxide	7631-86-9		0.014	mg	1483	17				
				supplier	glue	Silver(Ag)	7440-22-4		0.886	mg	832707	1064				
Die attach	M-015 Other organic materials	1.064	mg	supplier	glue	Ethylidenediphenyl dicyanate	47073-92-7		0.160	mg	150376	192				
				supplier	glue	Nonyphenol	84852-15-3		0.016	mg	15038	19				
				supplier	glue	Quartz	14808-60-7		0.001	mg	940	1				
				supplier	glue	Cobalt acetylacetonate	21679-46-9		0.001	mg	940	1				
				supplier	wire	Aluminium (Al)	7429-90-5		0.060	mg	983607	72				
Bonding wires	M-003 Aluminum and its alloys	0.061	mg	supplier	wire	Silicium (Si)	7440-21-3		0.001	mg	16393	1				
				supplier	base	Aluminum nitride, (AlN)	24304-00-5		351.840	mg	585230	422495				
Package base	M-011 Other inorganic materials	601.200	mg	supplier	base	Derbium trioxide	12061-16-4		31.380	mg	52196	37682				
				supplier	California 65	Molybdenum trioxide	1313-27-5		0.780	mg	1297	937				
				supplier	base	Tungsten (W)	7440-33-7		29.400	mg	48902	35304				
				supplier	base	Palladium (Pd)	7440-05-3		0.060	mg	100	72				
				supplier	base	Nickel (Ni)	7440-02-0		76.020	mg	126447	91286				
				supplier	base	Iron (Fe)	7439-89-6		93.120	mg	154890	111820				
				supplier	base	Gold (Au)	7440-57-5		14.460	mg	24052	17364				
				supplier	base	Silver (Ag)	7440-22-4		2.940	mg	4890	3530				
				supplier	base	Copper(Cu)	7440-50-8		0.540	mg	898	648				
				supplier	base	Cobalt (Co)	7440-48-4		0.660	mg	1098	793				
				Lid	M-011 Other inorganic materials	221.000	mg	supplier	alloy	Iron(Fe)	7439-89-6		97.019	mg	439000	116502
								supplier	alloy	Nickel(Ni)	7440-02-0		60.112	mg	272000	72183
								supplier	alloy	Cobalt(Co)	7440-48-4		30.498	mg	138000	36622
supplier	alloy	Gold(Au)	7440-57-5						28.730	mg	130000	34499				
supplier	alloy	Tin(Sn)	7440-31-5						4.641	mg	21000	5573				