



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*	2024-12-09
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*	Antonella Lanzafame	Representative title	APMSMaterial 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
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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
STACF01A	UN0T*MY39ABQ	A	Z7GA	2024-12-09
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	70.340	mg	Each	ECOPACK@ 3
Identity	Authority			
Comment	ECOPACK@ 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

Manufacturing information			
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	
3	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	0

Package designator	Package size	Number of instances	Shape	
qfn	5x5	23	No lead	
Comment				
Comment	B0K3 QFN5X5X1.2 - 23L			

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 17th Nov 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	0.008	alloy	114

QueryList :Customer		Response
QUERY		Response

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014				Response
QUERY				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
O	O	O	O	O

QueryList : REACH-7th November 2024				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 :	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

QueryList:Stockholm Convention Persistent Organic Pollutants (POP)	Response
Product is compliant with Annex A, B and C of Stockholm Convention Persistent Organic Pollutants	true

QueryList: EU Ship Recycling Regulation No. 1257/2013	Response
Product contains hazardous materials listed in Annex II of EU Ship Recycling Regulation No.1257/2013 and 2009/16/EC Directive	False

PFAS/PTFE Declaration	Response
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene,Thiophenium, Triphenylsulfonium nonaflate, Trifluoroacetic anhydride	False

BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True

Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True

Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	UN07*MY39ABQ		70.3400		6999997.0	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)
Dies	M-011 Other inorganic materials	1.922	mg	supplier	die	Silicon(Si)	7440-21-3		1.803	mg	938085	25633
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.023	mg	11967	327
				supplier	metallisation	Chromium(Cr)	7440-47-3		0.002	mg	1041	28
				supplier	metallisation	Copper(Cu)	7440-50-8		0.003	mg	1561	43
				supplier	metallisation	Gold(Au)	7440-57-5		0.004	mg	2081	57
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.008	mg	4162	114
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	520	14
				supplier	metallisation	Tungsten(W)	7440-33-7		0.006	mg	3122	85
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.001	mg	520	14
				supplier	passivation	Silicon oxide	7631-86-9		0.049	mg	25494	697
supplier	polymer coating	polyimide	proprietary		0.022	mg	11446	313				
Leadframe	M-004 Copper and its alloys	36.550	mg	supplier	alloy	Cu	7440-50-8		35.033	mg	958495	498052
				supplier	alloy	Si	7440-21-3		0.265	mg	7250	3767
				supplier	alloy	Ni	7440-02-0		1.170	mg	32011	16633
				supplier	alloy	Mg	7439-95-4		0.064	mg	1751	910
				supplier	alloy	Ag	7440-22-4		0.018	mg	492	256
Die attach	M-011 Other inorganic materials	0.590	mg	supplier	glue	Silver	7440-22-4		0.481	mg	815000	6836
				supplier	glue	(Octahydro-4,7-methano-1H-indenediy)bis(met	42594-17-2		0.035	mg	60000	503
				supplier	glue	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl meth	7534-94-3		0.035	mg	60000	503
				supplier	glue	Isobornyl acrylate	5888-33-5		0.035	mg	60000	503
				supplier	glue	2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane	3388-04-3		0.003	mg	5000	42
Die attach 2		0.110	mg	supplier	glue	Epoxy Resin A	29690-82-2		0.011	mg	100000	156
				supplier	glue	Epoxy Resin B	9003-36-5		0.017	mg	150000	235
				supplier	glue	Phenol Resin	9003-35-4		0.017	mg	150000	235
				supplier	glue	SiO2 Filler	7631-86-9		0.055	mg	500000	782
				#N/A	glue	(Meta)Acrylic Copolymer	58152-79-7		0.011	mg	100000	156
Bonding wires	M-004 Copper and its alloys	0.100	mg	supplier	wire	Cu	7440-50-8		0.098	mg	976450	1388
				supplier	wire	Pd	7440-05-3		0.002	mg	21000	30
				supplier	wire	Au	7440-57-5		0.0003	mg	2550	4
Encapsulation	M-011 Other inorganic materials	28.688	mg	supplier	mold compound	Epoxy Resin	Proprietary		1.414	mg	49271	20095
				supplier	mold compound	Phenol Resin	Proprietary		0.763	mg	26607	10851
				supplier	mold compound	Silica (Amorphous)A	60676-86-0		25.013	mg	871894	355600
				supplier	mold compound	Silica (Amorphous)B	7631-86-9		1.414	mg	49271	20095
				supplier	mold compound	Carbon Black	1333-86-4		0.085	mg	2956	1206
Connections coating	Solder	2.380	mg	supplier	solder alloy	Tin(Sn)	7440-31-5		2.380	mg	1000000	33836