



Material declaration form

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

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2024-10-01
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	AMSMaterial 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
VND5HV100AJTR-E	YV0T*VNX5ACC	A	BO2A	2024-10-01
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	115	mg	Each	ECOPACK® 2
Identity	Authority			
Comment	0			

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), immersion	Copper Alloy		0

Package designator	Package size	Number of instances	Shape	
DSO	4.9 x 3.9	12	Gull wing	
Comment				
Comment	0T POWERSO-12			

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		true
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)		false
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 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	0.036	alloy	313
	Lead	2.350	solder	20435

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					true
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	
X	O	O	O	O	
Die attach					
Homogeneous Material(s) containing Lead					

QueryList : REACH-27th June 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 (Pb)	1000 ppm	2.35	Die attach	20435	
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 dinitrate	1000 ppm	2.35	Die attach	954896	



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,

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	True
The material present in the product is:	Lead

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	YV0T*VNX5ACC		115.0000		5999999.0	990799.0
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	4.142	mg	supplier	die	Silicon(Si)	7440-21-3		3.728	mg	900048	32417
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.032	mg	7726	278
				supplier	metallisation	Copper(Cu)	7440-50-8		0.043	mg	10381	374
				supplier	metallisation	Gold(Au)	7440-57-5		0.008	mg	1931	70
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.036	mg	8691	313
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.139	mg	33559	1209
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.025	mg	6036	217
				supplier	passivation	Silicon oxide	7631-86-9		0.067	mg	16176	583
				supplier	polymer coating	polyimide	proprietary		0.064	mg	15451	557
				Leadframe	M-004 Copper and its alloys	68.738	mg	supplier	alloy	Copper(Cu)	7440-50-8	
supplier	alloy	Iron(Fe)	7439-89-6						1.557	mg	22651	13539
supplier	alloy	Iron phosphide	1310-43-6						0.094	mg	1368	817
supplier	alloy	Zinc(Zn)	7440-66-6						0.082	mg	1193	713
supplier	metallization	Silver (Ag)	7440-22-4						0.806	mg	11726	7009
Die attach	M-011 Other inorganic materials	2.461	mg	SVHC	glue	Lead(Pb)	7439-92-1	7a-Lead in high melting temperat	2.350	mg	954896	20435
				supplier	glue	Tin(Sn)	7440-31-5		0.049	mg	19911	426
				supplier	glue	Silver(Ag)	7440-22-4		0.062	mg	25193	539
Bonding wires	M-004 Copper and its alloys	2.583	mg	supplier	wire	Copper(Cu)	7440-50-8		2.583	mg	1000000	22461
Bonding wires 2	M-004 Copper and its alloys	0.248	mg	supplier	wire	Copper(Cu)	7440-50-8		0.248	mg	1000000	2157
Encapsulation	M-011 Other inorganic materials	35.770	mg	supplier	mold compound	Silica vitreous	60676-86-0		29.134	mg	814481	253339
				supplier	mold compound	Silicon oxide	7631-86-9		2.683	mg	75007	23330
				supplier	mold compound	Epoxy type resin	proprietary		2.683	mg	75007	23330
				supplier	mold compound	Phenol type resin	proprietary		1.073	mg	29997	9330
				supplier	mold compound	Carbon black	1333-86-4		0.197	mg	5507	1713
				supplier					0.000	mg	0	0
				supplier					0.000	mg	0	0
supplier					0.000	mg	0	0				