



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*	2023-10-16
Authorized representative*	Cyrille Boulloud	Representative title	AMS IMG Material Declaration Champion
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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
VD55H1CCA0/RW	ZT14*5H1KHAD	A	Tong Hsing, Chung Li	2023-10-16
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	9.4	mg	Each	ECOPACK® 2
Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant			

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	Not Applicable	DM01023349
Comment	ARTIFICIAL WAF PK FOR GOOD DIE		

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

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	Response
1 - Product(s) meets EU ELV requirement without any exemptions	true

QueryList : California Prop65 list, dated 11th Aug 2023	Response		
QUERY			
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen	true		
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen	false		
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.001	Die	107

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

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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Homogeneous Material above the limits per the definition within REACH	true

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 : 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, Tantalum, Tungsten,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

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	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	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						Manufacturing item name	ZT14*5H1KHAD		9.3600		1000000.0	1000000.0
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	9.360	mg	supplier	die	Silicon(Si)	7440-21-3		7.897	mg	843696	843696
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.112	mg	11966	11966
				supplier	metallisation	Copper(Cu)	7440-50-8		0.399	mg	42628	42628
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	107	107
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.001	mg	107	107
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.077	mg	8226	8226
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.024	mg	2564	2564
				supplier	metallisation	Tungsten(W)	7440-33-7		0.003	mg	321	321
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.123	mg	13141	13141
				supplier	passivation	Silicon Oxide	7631-86-9		0.686	mg	73291	73291
				supplier	polymer coating	Polymer resist (color, planar,µlens)	proprietary		0.037	mg	3953	3953