



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*	2025-04-07
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
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
SM50T10AY	AHZK*UAY010H	A	ZA41	2025-04-07
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	264	mg	Each	ECOPACK® 2
Identity	Authority			
Comment	0			

Manufacturing information			
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	
1	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
soj	6.88x5.97	2	J bend
Comment			
Comment	ZK SMC CLIP (SOD 15 NEW)		

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
QUERY		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 3rd January 2025				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	0.106	alloy	402	
Lead	5.657	solder	21428	

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	

QueryList : REACH-21st January 2025					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	5.66	Soft solder	21428	
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	5.657	Soft solder	920286	



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 :						Mfr Item Name	AHZK*UAY010H	264.0000		6000000.0	1000003.0	
note : Substance present with less 0.001mg will not be declared in this document												
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	13.519	mg	supplier	die	Silicon(Si)	7440-21-3		13.001	mg	961684	49246
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.146	mg	10800	553
				supplier	metallisation	Gold(Au)	7440-57-5		0.070	mg	5178	265
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.106	mg	7841	402
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.016	mg	1184	61
				supplier	passivation	Silicon oxide	7631-86-9		0.072	mg	5326	273
Leadframe	M-004 Copper and its alloys	68.289	mg	supplier	alloy	Copper(Cu)	7440-50-8		67.930	mg	994743	257311
				supplier	alloy	Iron(Fe)	7439-89-6		0.110	mg	1611	417
				supplier	alloy	Phosphorus m	7723-14-0		0.159	mg	2328	602
				supplier	alloy	Zinc(Zn)	7440-66-6		0.090	mg	1318	341
Soft solder	Solder	6.147	mg	SVHC	solder	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	5.657	mg	920286	21428
				supplier	solder	Tin(Sn)	7440-31-5		0.306	mg	49780	1159
				supplier	solder	Silver(Ag)	7440-22-4		0.153	mg	24890	580
				supplier	solder	dry flux residue	proprietary		0.031	mg	5043	117
Encapsulation	M-011 Other inorganic materials	153.697	mg	supplier	mold compound	Amorphous silic	7631-86-9		135.969	mg	884656	515034
				supplier	mold compound	Epoxy Cresol N	29690-82-2		9.250	mg	60183	35038
				supplier	mold compound	Phenolic resin	9003-35-4		6.937	mg	45134	26277
				supplier	mold compound	Carbon black	1333-86-4		0.617	mg	4014	2337
				supplier	mold compound	Magnesium oxl	1309-48-4		0.308	mg	2004	1167
				supplier	mold compound	Aluminium hydr	21645-51-2		0.308	mg	2004	1167
Connections coating	Solder	2.108	mg	supplier	mold compound	Mercaptopropy	4420-74-0		0.308	mg	2004	1167
				supplier	solder alloy	Tin(Sn)	7440-31-5		2.108	mg	1000000	7985
Clip		20.240	mg	supplier	alloy	Copper(Cu)	7440-50-8		18.240	mg	901186	69091
				supplier	alloy	Iron(Fe)	7439-89-6		0.600	mg	29644	2273
				supplier	alloy	Phosphorus m	7723-14-0		1.000	mg	49407	3788
				supplier	alloy	Zinc(Zn)	7440-66-6		0.400	mg	19763	1515