



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*	2025-04-18
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
ST87M01-1400	115P*HR00BD6	A	AF1A	2025-04-18
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	432.66	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	245	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
mounted board	12.8x10.6	43	Flat
Comment			
Comment	B0FX SMD MODULE		

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 : 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	0.260	alloy	601

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	
#N/A	0	0	0	0	

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				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 :	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	true

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
QUERY	Response
The product is containing fluorinated substance.	False
Substance Name, CAS	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	115P*HR00BD6	29.4530		9864757.0	68071.0	
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 or Dies or Wafer (choose)	M-011 Other inorganic materials	12.836	mg	supplier	die	Silicon(Si)	7440-21-3		14.743	mg	1148567	34075
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.011	mg	857	25
				supplier	metallisation	Copper(Cu)	7440-50-8		5.125	mg	399268	11845
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.022	mg	1714	51
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	78	2
				supplier	metallisation	Gold(Au)	7440-57-5		0.033	mg	2571	76
				supplier	metallisation	Iron(Fe)	7439-89-6		0.001	mg	78	2
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.155	mg	12075	358
				supplier	metallisation	Silver(Ag)	7440-22-4		0.170	mg	13244	393
				supplier	metallisation	Tin(Sn)	7440-31-5		4.122	mg	321128	9527
				supplier	metallisation	Tungsten(W)	7440-33-7		0.006	mg	467	14
				supplier	Passivation	Silicon nitride(Si3N4)	12033-89-5		0.006	mg	467	14
				supplier	passivation	Silicon oxide	7631-86-9		1.693	mg	131895	3913
				supplier	glass	AluminiumOxid	1344-28-1		0.004	mg	312	9
supplier	glass	Borosilicateglas	65997-17-3		1.267	mg	98707	2928				
PCB		0.500	mg	supplier	PWB Base Material_copper fo	Copper (Cu)	7440-50-8		0.149	mg	297200	343
				supplier	PWB Base Material_laminate	Epoxy resin	26265-08-7		0.142	mg	284600	329
				supplier	PWB Base Material_laminate	Fiber glass	65997-17-3		0.160	mg	320600	371
				supplier	PWB Solder Resist	Barium Sulfate	7727-43-7		0.024	mg	47200	55
				supplier	PWB Solder Resist	Epoxy and acry	Proprietary		0.024	mg	47200	55
				supplier	Immersion Gold	GOLD (Au)	7440-57-5		0.001	mg	1000	1
Capacitor C202 (GRM022R61A103KE19)		0.117	mg	supplier	Electroless Nickel	Nickel (Ni)	7440-02-0		0.001	mg	2200	3
				supplier	Copper alloys	Copper (Cu)	7440-50-8		0.026	mg	223077	60
				SVHC	Glass	Diboron trioxide	1303-86-2		0.001	mg	4957	1
				supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	19829	5
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.003	mg	25641	7
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	17094	5
				supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	59829	16
				supplier	Ceramic	Barium oxide, c	1304-28-5		0.029	mg	251282	68
				supplier	Ceramic	Titanium dioxide	13463-67-7		0.015	mg	125641	34
				supplier	Ceramic	Misc	Proprietary		0.005	mg	41880	11
Capacitor C203 (GRM0225C1H100JA03)		0.063	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.027	mg	230769	62
				SVHC	Glass	Diboron trioxide	1303-86-2		0.001	mg	9524	1
				supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	38095	6
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.003	mg	47619	7
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	31746	5
				supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	111111	16
				supplier	Ceramic	Zirconium oxide	1314-23-4		0.024	mg	380952	55
				supplier	Ceramic	Calcium oxide	1305-78-8		0.019	mg	304762	44
				supplier	Ceramic	Misc	Proprietary		0.005	mg	76190	11
				Capacitor C206 (GRM033R60J474ME90)		0.330	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8	
SVHC	Glass	Diboron trioxide	1303-86-2						0.002	mg	4606	4
supplier	Glass	Silicon dioxide	7631-86-9						0.006	mg	18424	14
supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0						0.007	mg	21212	16
supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0						0.008	mg	24242	18
supplier	Tin plating	Tin (Sn)	7440-31-5						0.019	mg	57576	44
supplier	Ceramic	Barium oxide, c	1304-28-5						0.132	mg	400000	305
supplier	Ceramic	Titanium dioxide	13463-67-7						0.066	mg	200000	153
supplier	Ceramic	Misc	Proprietary						0.022	mg	66667	51
Capacitor C207 (GRM033R60J224ME15)		0.330	mg					supplier	Copper alloys	Copper (Cu)	7440-50-8	
				SVHC	Glass	Diboron trioxide	1303-86-2		0.002	mg	4606	4
				supplier	Glass	Silicon dioxide	7631-86-9		0.006	mg	18424	14
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.007	mg	21212	16
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.008	mg	24242	18
				supplier	Tin plating	Tin (Sn)	7440-31-5		0.019	mg	57576	44
				supplier	Ceramic	Barium oxide, c	1304-28-5		0.132	mg	400000	305
				supplier	Ceramic	Titanium dioxide	13463-67-7		0.066	mg	200000	153
				supplier	Ceramic	Misc	Proprietary		0.022	mg	66667	51
				Capacitor C209,C212 (GRM022R60J103KE19)		0.180	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8	



				SVHC	Glass	Diboron trioxide	1303-86-2		0.001	mg	6444	3
				supplier	Glass	Silicon dioxide	7631-86-9		0.005	mg	25778	11
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.006	mg	33333	14
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.004	mg	22222	9
				supplier	Tin plating	Tin (Sn)	7440-31-5		0.014	mg	77778	32
				supplier	Ceramic	Barium oxide, of	1304-28-5		0.059	mg	326667	136
				supplier	Ceramic	Titanium dioxide	13463-67-7		0.029	mg	163333	68
				supplier	Ceramic	Misc	Proprietary		0.010	mg	54444	23
Capacitor C213 (GRM022R60J473ME15)		0.090	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.026	mg	290000	60
				SVHC	Glass	Diboron trioxide	1303-86-2		0.001	mg	6444	1
				supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	25778	5
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.003	mg	33333	7
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	22222	5
				supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	77778	16
				supplier	Ceramic	Barium oxide, of	1304-28-5		0.029	mg	326667	68
				supplier	Ceramic	Titanium dioxide	13463-67-7		0.015	mg	163333	34
				supplier	Ceramic	Misc	Proprietary		0.005	mg	54444	11
Capacitor C214.C223 (GRM033C81A105)		0.220	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.137	mg	207273	316
				SVHC	Glass	Diboron trioxide	1303-86-2		0.003	mg	4606	7
				supplier	Glass	Silicon dioxide	7631-86-9		0.012	mg	18424	28
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.014	mg	21212	32
				supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.016	mg	24242	37
				supplier	Tin plating	Tin (Sn)	7440-31-5		0.038	mg	57576	88
				supplier	Ceramic	Barium oxide, of	1304-28-5		0.264	mg	400000	610