



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*	2025-02-11
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
STLQ020C22R	RVW8*V220AB5	A	ZS1A	2025-02-11
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	7	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	
1	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	0

Package designator	Package size	Number of instances	Shape
SOT	2x1.126	5	gull wing
Comment			
Comment	W8 SOT 323 5LDS		

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 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	0.033	alloy	4714

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
0	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 :	Gold, 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	RVW8*V220AB5		7.0003		5000000.0	1000044.0
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	0.321	mg	supplier	die	Silicon(Si)	7440-21-3		0.301	mg	937695	43000	
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.004	mg	12461	571	
				supplier	metallisation	Tungsten(W)	7440-33-7		0.003	mg	9346	429	
				supplier	Passivation	Silicon nitride(Si)	12033-89-5		0.001	mg	3115	143	
				supplier	passivation	Silicon oxide	7631-86-9		0.007	mg	21807	1000	
				supplier	polymer coating	polyimide	proprietary		0.005	mg	15576	714	
Leadframe	M-004 Copper and its alloys	3.261	mg	supplier	alloy	Copper(Cu)	7440-50-8		3.154	mg	967188	450571	
				supplier	alloy	Zinc(Zn)	7440-66-6		0.002	mg	613	286	
				supplier	alloy	Iron(Fe)	7439-89-6		0.068	mg	20852	9714	
				supplier	alloy	Nickel (Ni)	7440-02-0		0.033	mg	10120	4714	
				supplier	alloy	Palladium (Pd)	7440-05-3		0.003	mg	920	429	
				supplier	alloy	Gold (Au)	7440-57-5		0.001	mg	307	143	
Die attach	M-011 Other inorganic materials	0.276	mg	supplier	glue	Aluminium oxide	1344-28-1		0.135	mg	490000	19320	
				supplier	glue	Ethyl acetate	112-15-2		0.055	mg	200000	7886	
				supplier	glue	Epoxy resin	Proprietary		0.055	mg	200000	7886	
				supplier	glue	Bisphenol A	25068-38-6		0.015	mg	55000	2169	
				supplier	glue	Aromatic polyan	proprietary		0.014	mg	50000	1971	
				supplier	glue	Aminopropyltri	919-30-2		0.001	mg	5000	197	
Bonding wires	M-008 Precious metals	0.033	mg	supplier	wire	Gold (Au)	7440-57-5		0.033	mg	1000000	4757	
Encapsulation	M-011 Other inorganic materials	3.109	mg	supplier	mold compound	Solid Epoxy Res	25068-38-6		0.063	mg	20135	8943	
				supplier	mold compound	Solid Epoxy Res	Proprietary		0.063	mg	20135	8943	
				supplier	mold compound	Phenol resin	29690-82-2		0.125	mg	40270	17886	
				supplier	mold compound	Amorphous Silic	60676-86-0		2.765	mg	889257	394957	
				supplier	mold compound	Carbon Black	1333-86-4		0.016	mg	5034	2236	
				supplier	mold compound	Crystalline silica	14808-60-7		0.078	mg	25169	11179	