



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D <i>* : Required Field</i>

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	29-03-2023
Company Unique ID	NL 008751171B01		
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 *	Material Declaration champion	Representative Title	Material 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

Legal Statement

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	Mfr Site	Date
STM32F723VCY6TR	T2D9*452XXXA	A	9965	29-03-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	16.78	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 (in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Tin/Silver/Copper/Nickel(SACN12505)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
WLCSP	Not applicable	100	No lead	
Comment	Package : A084 WLCSP 100L DIE 452 P 0.4 DM00229026			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	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 : REACH-10 Jun 2022				
Query				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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	T2D9*452XXXA				8000001.0	1000001.7
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	11.720	mg	supplier	die	Silicon (Si)	7440-21-3		10.745	mg	916809	640323
				supplier	metallization	Aluminium (Al)	7429-90-5		0.068	mg	5802	4052
				supplier	metallization	Copper (Cu)	7440-50-8		0.443	mg	37799	26400
				supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	85	60
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.062	mg	5290	3695
				supplier	metallization	Tungsten (W)	7440-33-7		0.199	mg	16980	11859
Plating Seed layer 1	M-011 Other inorganic materials	0.015	mg	supplier	Passivation	Silicon Nitride	12033-89-5		0.052	mg	4437	3099
				supplier	Passivation	Silicon Oxide	7631-86-9		0.150	mg	12799	8939
				supplier	Alloy	Titanium (Ti)	7440-32-6		0.003	mg	200963	178
				supplier	Alloy	Copper (Cu)	7440-50-8		0.012	mg	799037	709
Re-passivation layer (PBO)	M-011 Other inorganic materials	0.120	mg	supplier	Polymer	4-Butyrolactone	96-48-0		0.108	mg	900000	6423
				supplier	Polymer	1-Methoxy-2-propyl acetate	108-65-6		0.012	mg	100000	714
Redistribution Layer	M-011 Other inorganic materials	0.238	mg	supplier	Alloy	Copper (Cu)	7440-50-8		0.238	mg	1000000	14179
Plating Seed layer 2	M-011 Other inorganic materials	0.008	mg	supplier	Alloy	Titanium (Ti)	7440-32-6		0.002	mg	200963	102
				supplier	Alloy	Copper (Cu)	7440-50-8		0.007	mg	799037	405
Re-passivation layer (PBO)	M-011 Other inorganic materials	0.095	mg	supplier	Polymer	4-Butyrolactone	96-48-0		0.086	mg	900000	5107
				supplier	Polymer	1-Methoxy-2-propyl acetate	108-65-6		0.010	mg	100000	567
UBM	M-011 Other inorganic materials	0.292	mg	supplier	Alloy	Copper (Cu)	7440-50-8		0.292	mg	1000000	17404
Solder ball (SACN125)	Solder	3.790	mg	supplier	Solder	Tin (Sn)	7440-31-5		3.724	mg	982500	221904
				supplier	Solder	Silver (Ag)	7440-22-4		0.045	mg	12000	2710
				supplier	Solder	Copper (Cu)	7440-50-8		0.019	mg	5000	1129
				supplier	Solder	Nickel (Ni)	7440-02-0		0.002	mg	500	113
Back Side Coating	M-011 Other inorganic materials	0.502	mg	supplier	Polymer	Polybutylene terephthalate (PBT)	25038-59-9		0.326	mg	650000	19455
				supplier	Polymer	Silica	Proprietary		0.098	mg	195000	5837
				supplier	Polymer	Proprietary Material-Other Epoxy resins	Proprietary		0.038	mg	75000	2245
				supplier	Polymer	Proprietary Material-Other Acrylic resins	Proprietary		0.038	mg	75000	2245
				supplier	Polymer	Carbon black	1333-86-4		0.003	mg	5000	150