



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 *	2022-07-06
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	<p>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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32H7A3QIY6QTR	T8J1*480XXX	A	9965	2022-07-06
	Amount	UoM	Unit type	ST ECOPACK Grade
	23.83	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 (SAC405)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
WLCSP	Not applicable	132	No lead	
Comment	Package : B06G WLCSP 132L DIE 480 PITCH 0.35 DM00429432			

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-17 Jan 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	T8J1*480XXX				8999999.0	899971.1
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	16.193	mg	supplier	die	Silicon (Si)	7440-21-3		15.548	mg	960168	652455
				supplier	metallization	Aluminium (Al)	7429-90-5		0.076	mg	4693	3189
				supplier	metallization	Copper (Cu)	7440-50-8		0.240	mg	14821	10071
				supplier	passivation	Nickel (Ni)	7440-02-0		0.001	mg	62	42
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.039	mg	2408	1637
				supplier	metallization	Titanium (Ti)	7440-32-6		0.007	mg	432	294
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	62	42
				supplier	Passivation	Silicon Oxide	7631-86-9		0.281	mg	17353	11792
Plating Seed layer 1	M-011 Other inorganic materials	0.025	mg	supplier	Alloy	Ti	7440-32-6		0.005	mg	200963	207
				supplier	Alloy	Cu	7440-50-8		0.020	mg	799037	824
Re-passivatipon layer	M-011 Other inorganic materials	0.171	mg	supplier	Polymer	Proprietary Polymer	Proprietary		0.154	mg	900000	6473
				supplier	Polymer	Additives	Proprietary		0.017	mg	100000	719
Redistribution Layer	M-011 Other inorganic materials	0.648	mg	supplier	Alloy	Cu	7440-50-8		0.648	mg	1000000	27194
Plating Seed layer 2	M-011 Other inorganic materials	0.012	mg	supplier	Alloy	Ti	7440-32-6		0.002	mg	200963	99
				supplier	Alloy	Cu	7440-50-8		0.009	mg	799037	394
Re-passivatipon layer	M-011 Other inorganic materials	0.188	mg	supplier	Polymer	Proprietary Polymer	Proprietary		0.170	mg	900000	7117
				supplier	Polymer	Additives	Proprietary		0.019	mg	100000	791
UBM	M-011 Other inorganic materials	0.404	mg	supplier	Alloy	Cu	7440-50-8		0.404	mg	1000000	16957
Solder ball SAC405	Solder	5.473	mg	supplier	Solder	Sn	7440-31-5		5.227	mg	955000	219334
				supplier	Solder	Ag	7440-22-4		0.219	mg	40000	9187
				supplier	Solder	Cu	7440-50-8		0.027	mg	5000	1148
Back Side Coating LC2850	M-011 Other inorganic materials	0.715	mg	supplier	Polymer	Poly(oxy-1,2-ethanedioxy)carbonyl-1,4-phenyl	25038-59-9		0.465	mg	650000	19502
				supplier	Polymer	Silica	Proprietary		0.139	mg	195000	5851
				supplier	Polymer	Proprietary Material-Other Epoxy resins	Proprietary		0.054	mg	75000	2250
				supplier	Polymer	Proprietary Material-Other Acrylic resins	Proprietary		0.054	mg	75000	2250
				supplier	Polymer	Carbon black	1333-86-4		0.004	mg	5000	150