

Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute	1	
Sectionals *	Material Info	Subsectionals *	A-D
	Manufacturing Info		* : Required Field

Supplier Information					
Company Name *	STMicroelectronics	Response Date *	2021-06-09		
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 *	Floriana SAN BIAGIO	Representative Title	AMS Material Declaration champion		
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section		
Supplier Comment	nline Technical Support - STMicroelectronics : ttp://www.st.com/web/en/support/support.html				

Uncertainty Statement

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.

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		
	CS6P*1022AAY	В	999L	2021-06-09		
	Amount	UoM	Unit type	ST ECOPACK Grade		
	35	mg	Each	ECOPACK® 3		
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 Temp	Nbr of Reflow Cycles				
1	260	3				
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life.augmented		
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	,	moradgi no mod		

Package Designator	Package Size	Nbr of instances	Shape	
DSO	3 x 4.4	8	Gull wing	
Comment	6P TSSOP 8 BODY 4.4 PITCH 0.65; MDF is valid for	TSC1021AIYPT		

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 w	- Product(s) meets EU RoHS requirement without any exemptions true				
2 - Product(s) meets EU RoHS requirements e	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)				
3 - Product(s) meets EU RoHS requirements b	- Product(s) meets EU RoHS requirements by application of the selected exemption(s)				
4 - Product(s) does not meet EU RoHS require	- Product(s) does not meet EU RoHS requirements and is not under exemptions				
Exemption Id. Description					

QueryList : ELV directive : 2000/53/EC at	QueryList: ELV directive: 2000/53/EC amended 2020/363_March 2020					
Query Response						
L - Product(s) meets EU ELV requirements without any exemptions true						
2 - Product(s) meets EU RoHS requirements b	2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)					
Exemption Id.	scription					

QueryList : California Prop65 list, dated 3rd January 2020					
Query	Response				
1 - The product does not contain identified substance from California Prop 65 List, no exposure to co	false				
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consum	true				
Substance	ppm in product				
Nickel	8169				

QueryList : Chinese RoHS , references	QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014					
Query	Response					
Product(s) requires marking for the pr Administration of the control of pollution	false					
2 - Product(s) is eligible for marking with	false					
	ŀ	Hasardous substance				
Lead (Pb)	PBB & PBDE					
0	0					

QueryList: REACH-19th January 2021						
	Query			Response		
1 - Product(s) does not contain REACH Substa	ances Of Very High Concern above the limits per the defi	inition within REACH		true		
CategoryLevel_Name	CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application					
,						
2 - Product(s) does not contain REACH Su REACH	ibstances Of Very High Concern in any Embedded a	article nor Homogeneous Material abov	ve the limits per the definition within	true		
CategoryLevel_Name	Categoryl eyel Threshold		Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material		
,			,			

QueryList : Responsible metals sourcing				
Query	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 :	Tin,			
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .				

QueryList : Korea Chemical Control Act_	QueryList : Korea Chemical Control Act_ 27 Dec 2017 update						
	Query						
The Product does contain at least one of	The Product does contain at least one of the substances listed in Chemical Control Act						
Substance	Application Purpose						

Material Composition Declaration: note: Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	CS6P*1022AAY		35.6377		6000000.0	1021431.0
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	1.524	mg	supplier	die	Silicon(Si)	7440-21-3		1.461	mg	958661	41874
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.015	mg	9843	430
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.002	mg	1312	57
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.004	mg	2625	115
				supplier	passivation	Silicon oxide	7631-86-9		0.026	mg	17060	745
				supplier	polymer coating	polyimide	proprietary		0.016	mg	10499	459
Leadframe	M-004 Copper and its alloys	11.145	mg	supplier	alloy	Copper(Cu)	7440-50-8		10.666	mg	957021	305704
				supplier	alloy	Nickel(Ni)	7440-02-0		0.285	mg	25572	8169
				supplier	alloy	Magnesium(Mg)	7439-95-4		0.011	mg	987	315
				supplier	alloy	Tin (Sn)	7440-31-5		0.114	mg	10229	3267
				supplier	metallization	Silver (Ag)	7440-22-4		0.069	mg	6191	1978
Die attach	M-015 Other organic materials	0.169	mg	supplier	glue	Silver (Ag)	7440-22-4		0.131	mg	775000	3754
				supplier	glue	Acrylate monomer	61434-04-6		0.020	mg	120000	581
				supplier	glue	Acrylate oligomer	Proprietary		0.012	mg	70000	339
				supplier	glue	Bismaleimide resin	Proprietary		0.005	mg	30000	145
				supplier	glue	Epoxy resin	26875-67-2		0.001	mg	5000	24
Bonding wires	M-004 Copper and its alloys	0.637	mg	supplier	wire	Copper (Cu)	7440-50-8		0.618	mg	970168	17710
				supplier	wire	Palladium (Pd)	7440-05-3		0.019	mg	29832	545
Encapsulation	M-015 Other organic materials	19.873	mg	supplier	mold compound	Epoxy Resin 1	29690-82-2		0.099	mg	5000	2848
				supplier	mold compound	Epoxy Resin 2	Proprietary		0.099	mg	5000	2848
				supplier	mold compound	Epoxy Resin 3	Proprietary		0.099	mg	5000	2848
				supplier	mold compound	Phenol Resin	25068-38-6		0.397	mg	20000	11392
				supplier	mold compound	Carbon black	1333-86-4		0.020	mg	1000	570
				supplier	mold compound	Amorphous silica	60676-86-0		18.959	mg	954000	543389
				supplier	mold compound	Crystal silica	14808-60-7		0.199	mg	10000	5696
Connections coating	Solder	2.290	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.290	mg	1000000	65629