



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 *	2020-04-30
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 MD 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
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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
	KD6R*0924A56	A	BO2A	2020-04-30
	Amount	UoM	Unit type	ST ECOPACK Grade
	55	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		 life.augmented
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	Size	Nbr of instances	Shape	
DSO	4.4 x 5	14	gull wing	
Comment	6R TSSOP 14 BODY 4.4 PITCH 0.65; MDF is valid for TS924IYPT and TS9224IYPT			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 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 : ELV directive : 2000/53/EC amended 2020/363_March 2020	
Query	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 2020			
Query			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	0.26	alloy&coating	4706

QueryList : REACH-16th January 2020				
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
	0			
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
	0			

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update				
Query				Response
The Product does contain at least one of the substances listed in Chemical Control Act				NO
Substance	Homogeneous Material impacted	Content in Homogeneous Material (mg)	Concentration in the material(%)	Application Purpose

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	KDGR*0924AS6				500001.0	1000016.0
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	3.190	mg	supplier	die	Silicon(Si)	7440-21-3		3.165	mg	992163	57734
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.011	mg	3448	201
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.008	mg	2508	146
				supplier	passivation	Silicon oxide	7631-86-9		0.006	mg	1881	109
				supplier	alloy & coating	Copper(Cu)	7440-50-8		20.021	mg	961393	365213
Leadframe	M-004 Copper and its alloys	20.825	mg	supplier	alloy & coating	Nickel(Ni)	7440-02-0		0.258	mg	12389	4706
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.471	mg	22617	8592
				supplier	alloy & coating	Iron Phosphide(FeP)	26508-33-8		0.028	mg	1345	511
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.025	mg	1200	456
				supplier	alloy & coating	Silver (Ag)	7440-22-4		0.005	mg	240	91
				supplier	alloy & coating	Palladium(Pd)	7440-05-3		0.007	mg	336	128
				supplier	alloy & coating	Gold(Au)	7440-57-5		0.010	mg	480	182
				supplier	alloy & coating	Silver(Ag)	7440-22-4		0.590	mg	876672	10762
Die attach	M-015 Other organic materials	0.673	mg	supplier	glue	Isobornyl methacrylate	7534-94-3		0.034	mg	50520	620
				supplier	glue	Isobornyl acrylate	5888-33-5		0.034	mg	50520	620
				supplier	glue	Methyl acrylate polymer	87320-05-6		0.013	mg	19316	237
				supplier	glue	Epoxyhexylethyltrimethoxysilane	3388-04-3		0.001	mg	1486	18
				supplier	glue	Tert-Butyl peroxy(2-ethyl)-hexanoate	3006-82-4		0.001	mg	1486	18
Bonding wires	M-004 Copper and its alloys	0.083	mg	supplier	wire	Copper(Cu)	7440-50-8		0.083	mg	1000000	1514
Encapsulation	M-011 Other inorganic materials	30.050	mg	supplier	mold compound	Silica vitreous	60676-86-0		26.353	mg	876972	480719
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		1.202	mg	40000	21926
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		1.202	mg	40000	21926
				supplier	mold compound	Phenol type resin	proprietary		0.902	mg	30017	16454
				supplier	mold compound	additive	proprietary		0.301	mg	10017	5491
supplier	mold compound	Carbon black	1333-86-4		0.090	mg	2995	1642				