



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 *	2018-03-29
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 *	Giovanni Giacopello	Representative Title	ADG 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

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
STW26N60M2	TSLW*MQ6WB62	A	3068	2018-03-29
	Amount	UoM	Unit type	ST ECOPACK Grade
	4430	mg	Each	ECOPACK2
	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
NA	NA	NA		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	15.75-20.15-5.15	3	Through-hole	
Comment	TO 247			

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	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 15th December 2017			
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	1.00	Die - Leadframe	226
Lead	11.44	Soft solder	2581

QueryList : REACH-15th January 2018				
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
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	TSLW*MQ6WB62				6000000.0	999999.0
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	13.147	mg	supplier	die	Silicon (Si)	7440-21-3		12.850	mg	977409	2901
				supplier	metallization	Aluminium (Al)	7429-90-5		0.120	mg	9128	27
				supplier	Passivation	Silicon Oxide	7631-86-9		0.052	mg	3955	12
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.006	mg	456	1
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.088	mg	6694	20
Leadframe	M-004 Copper and its alloys	2826.184	mg	supplier	alloy	Copper (Cu)	7440-50-8		2821.522	mg	998350	636912
				supplier	alloy	Iron (Fe)	7439-89-6		2.825	mg	1000	638
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.848	mg	300	191
				supplier	metallization	Nickel (Ni)	7440-02-0		0.915	mg	324	207
				supplier	metallization	Phosphorus (P)	7723-14-0		0.074	mg	26	17
Soft solder	Solder	11.975	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	11.436	mg	954990	2581
				supplier	solder	Silver (Ag)	7440-22-4		0.299	mg	24969	67
				supplier	solder	Tin (Sn)	7440-31-5		0.240	mg	20041	54
				supplier	wire	Aluminium (Al)	7429-90-5		0.962	mg	996891	217
Bonding wires	M-011 Other inorganic materials	0.965	mg	supplier	wire	Magnesium (Mg)	7439-95-4		0.003	mg	3109	1
				supplier	mold compound	Silica, vitreous	60676-86-0		1364.537	mg	870000	308022
				supplier	mold compound	Epoxy resin	25068-38-6		156.843	mg	100000	35405
				supplier	mold compound	Phenol resin	29690-82-2		39.211	mg	25000	8851
connections coating	Solder	9.296	mg	supplier	mold compound	Carbon black	1333-86-4		7.842	mg	5000	1770
				supplier	solder alloy	Tin (Sn)	7440-31-5		9.296	mg	1000000	2098