



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 *	2017-02-07
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	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
STTH3003CW	HSLW*879K027	A	3068	2017-02-07
	Amount	UoM	Unit type	ST ECOPACK Grade
	4430.00	mg	Each	ECOPACK2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
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	
SIP	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)

Query : California Prop65 list, dated 21st October 2016			
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 backside metal - leadframe	227
Lead	11.90	soft solder	2686

QueryList : REACH-12th January 2017				
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	HSLW*879K027					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	19.212	mg	supplier	die	Silicon (Si)	7440-21-3		18.640	mg	970227	4208
				supplier	metallization	Aluminium (Al)	7429-90-5		0.270	mg	14054	61
				supplier	Passivation	Silicon Oxide	7631-86-9		0.053	mg	2759	12
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.006	mg	311	1
				supplier	back side metallization	Gold (Au)	7440-57-5		0.019	mg	989	4
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.089	mg	4633	20
				supplier	polymer die coating	Probimide	proprietary		0.135	mg	7027	30
Leadframe	Copper & its alloys	2826.184	mg	supplier	alloy	Copper (Cu)	7440-50-8		2821.522	mg	998350	636912
				supplier	alloy	Iron (Fe)	7439-89-6		1.300	mg	460	293
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		2.373	mg	840	536
				supplier	metallization	Nickel (Ni)	7440-02-0		0.915	mg	324	209
				supplier	metallization	Phosphorus (P)	12185-10-3		0.074	mg	26	17
Soft solder	Solder	12.460	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	11.899	mg	954976	2686
				supplier	solder	Silver (Ag)	7440-22-4		0.312	mg	25040	70
				supplier	solder	Tin (Sn)	7440-31-5		0.249	mg	19984	56
Bonding wires	Other inorganic materials	4.159	mg	supplier	wire	Aluminium (Al)	7429-90-5		4.159	mg	1000000	939
				supplier								
Encapsulation	Other Organic Materials	1558.689	mg	supplier	mold compound	Silica, vitreous	60676-86-0		1356.060	mg	870000	306108
				supplier	mold compound	Epoxy resin	25068-38-6		155.869	mg	100000	35185
				supplier	mold compound	Phenol resin	29690-82-2		38.967	mg	25000	8796
				supplier	mold compound	Carbon Black	1333-86-4		7.793	mg	5000	1759
Connections coating	Solder	9.296	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		9.296	mg	1000000	2098