



Materials Declaration Form

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

*: Required Field

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-11-21
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
STTH802CB-TR	HWDP*C93F024	A	994X	2017-11-21
	Amount	UoM	Unit type	ST ECOPACK Grade
	320.00	mg	Each	ECOPACK2

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	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	6.5-6.1-2.3	3	GULL WING	
Comment	TO 252 DPAK			

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 27th January 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	0.02	Die / Leadframe	59
Lead	2.66	Soft solder	8300
Cobalt	0.46	Leadframe	1444

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	HWDP* C93F024					
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	2.874	mg	supplier	die	Silicon (Si)	7440-21-3		2.773	mg	964857	8666
				supplier	metallization	Aluminium (Al)	7429-90-5		0.034	mg	11830	106
				supplier	Passivation	Silicon Oxide	7631-86-9		0.011	mg	3827	34
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	349	3
				supplier	back side metallization	Gold (Au)	7440-57-5		0.004	mg	1392	13
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.019	mg	6611	59
Leadframe	Copper & its alloys	164.944	mg	supplier	polymer die coating	Proximide	proprietary		0.032	mg	11134	100
				supplier	alloy	Copper (Cu)	7440-50-8		164.152	mg	995198	512975
				supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		0.330	mg	2001	1031
Soft solder	Solder	2.782	mg	JIG - R	solder	Cobalt (Co)	7440-48-4		0.462	mg	2801	1444
				supplier	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	2.656	mg	954709	8300
				supplier	solder	Silver (Ag)	7440-22-4		0.070	mg	25162	219
Bonding wires	Other inorganic materials	0.739	mg	supplier	solder	Tin (Sn)	7440-31-5		0.056	mg	20129	175
				supplier	wire	Aluminium (Al)	7429-90-5		0.739	mg	1000000	2309
				supplier	mold compound	Silica, vitreous	60676-86-0		132.485	mg	897498	414016
Encapsulation	Other Organic Materials	147.616	mg	supplier	mold compound	Epoxy resin	25068-38-6		10.333	mg	69999	32291
				supplier	mold compound	Phenol resin	29690-82-2		4.429	mg	30003	13841
				supplier	mold compound	carbon black	1333-86-4		0.369	mg	2500	1152
Connections coating	Solder	1.045	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3266