



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 *	2015-12-17
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	Representative Title	IPD 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		

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Legal Statement			
Supplier Acceptance *	true	Legal Declaration *	Standard
Legal Statement	<p>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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STD8N80K5	XMDP*VJ83B52	A	SHENZHEN B/E	2015-12-17
	Amount	UoM	Unit type	ST ECOPACK Grade
	330.00	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	
NAC	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	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	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 : REACH-15th June 2015				
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						Mfr Item Name	XMDP*VJ83B52					
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	7.824	mg	supplier	die	Silicon (Si)	7440-21-3		7.499	mg	958461	22724
				supplier	metallization	Aluminium (Al)	7429-90-5		0.140	mg	17894	424
				supplier	Passivation	Silicon Nitride	12033-89-5		0.032	mg	4090	97
				supplier	Passivation	Silicon Oxide	7631-86-9		0.080	mg	10225	242
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.004	mg	511	12
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.051	mg	6518	155
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.018	mg	2301	55
Leadframe	Copper & its alloys	166.150	mg	supplier	alloy	Copper (Cu)	7440-50-8		164.152	mg	987975	497430
				supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		0.330	mg	1986	1000
				supplier	alloy	Cobalt (Co)	7440-48-4		0.462	mg	2781	1400
				supplier	metallization	Nickel (Ni)	7440-02-0		1.199	mg	7216	3633
				supplier	metallization	Phosphorus (P)	12185-10-3		0.007	mg	42	21
Soft solder	Solder	7.166	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	6.844	mg	955066	20739
				supplier	solder	Silver (Ag)	7440-22-4		0.179	mg	24979	542
				supplier	solder	Tin (Sn)	7440-31-5		0.143	mg	19955	433
Bonding wires	Other inorganic materials	0.267	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.266	mg	998124	806
				supplier	wire	Magnesium (Mg)	7439-95-4		0.001	mg	1876	2
Encapsulation	Other Organic Materials	147.548	mg	supplier	mold compound	Silica, vitreous	60676-86-0		129.105	mg	875003	391227
				supplier	mold compound	Tetramethyl-biphenyl-diyl-bis oxymethylene-b	EC 413-900-7		5.902	mg	40001	17885
				supplier	mold compound	Epoxy Resin	25068-38-6		4.426	mg	29997	13412
				supplier	mold compound	phenol resin	29690-82-2		7.377	mg	49997	22355
Connections coating	Solder	1.045	mg	supplier	mold compound	Carbon black	1333-86-4		0.738	mg	5002	2236
				supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167