



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 *	2015-11-17
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		

Uncertainty Statement

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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
E-TEA3718DP	9F17*3718GA6	A	Z8GA	2015-11-17
	Amount	UoM	Unit type	ST ECOPACK Grade
	1025.00	mg	Each	ECOPACK® 2

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	
DIP	17X19.18X6.35	15	Through-hole	
Comment	Package: PDIP 16 .3 Cu .25 STD			

QueryList : ROHS directive 2011/65/EU _ July 2011	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description

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	9F17*3718GA6					
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	10.433	mg	supplier	die	Silicon (Si)	7440-21-3		10.114	mg	969424	9867
				supplier	metallization	Aluminium (Al)	7429-90-5		0.063	mg	6039	61
				supplier	Passivation	Silicon Nitride	12033-89-5		0.032	mg	3067	31
				supplier	Passivation	Silicon Oxide	7631-86-9		0.040	mg	3834	39
				supplier	back side metallization	Gold (Au)	7440-57-5		0.008	mg	767	8
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.176	mg	16870	172
Leadframe	Copper and its alloy	568.016	mg	Supplier	Alloy	Iron Phosphide(Fe2P)	1310-43-6		0.483	mg	850	471
				Supplier	Alloy	Iron (Fe)	7439-89-6		13.348	mg	23499	13022
				Supplier	Alloy	Copper (Cu)	7440-50-8		553.361	mg	974200	539864
				Supplier	Alloy	Zinc (Zn)	7440-66-6		0.710	mg	1250	693
				Supplier	Alloy	Lead (Pb)	7439-92-1		0.057	mg	100	56
				Supplier	Alloy	Silver(Ag)	7440-22-4		0.057	mg	100	56
Die Attach	Other Organic Material	0.733	mg	Supplier	Epoxy	Silver(Ag)	7440-22-4		0.524	mg	714870	511
				Supplier	Epoxy	Epoxy Resin	25068-38-6		0.110	mg	150068	107
				Supplier	Epoxy	2,6-Diglycidyl phenyl allyl ether oligomer	Proprietary		0.055	mg	75034	54
				Supplier	Epoxy	Epoxy resin modifier	Proprietary		0.022	mg	30014	21
				Supplier	Epoxy	Amine compound	Proprietary		0.022	mg	30014	21
				Supplier	Bonding wire	Gold(Au)	7440-57-5		0.220	mg	1000000	215
Encapsulation	Other Organic Material	432.779	mg	Supplier	Molding compound	Silica (Amorphous)	60676-86-0		331.045	mg	764929	322971
				Supplier	Molding compound	Epoxy resin	29690-82-2		43.291	mg	100030	42235
				Supplier	Molding compound	Phenol resin	9003-35-4		12.987	mg	30008	12670
				Supplier	Molding compound	Metal Hydroxide	21645-51-2		43.291	mg	100030	42235
				Supplier	Molding compound	Carbon black	1333-86-4		2.165	mg	5003	2112
Finishing	Other Inorganic Material	12.819	mg	Supplier	Connection Coating	Tin(Sn)	7440-31-5		12.819	mg	1000000	12506