



Materials Declaration Form


IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Sectionals *	A-D <i>* : Required Field</i>

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-07-07
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Floriana San Biagio	Representative Title	AMG 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	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 omprehensive 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
	FBK7*0914ASW	A	ZY1A	2017-07-07
Amount	UoM	Unit type	ST ECOPACK Grade	
130.00	mg	Each	ECOPACK® 3	

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	
ting is used or other bulk terminat	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	8.6x3.9x1.52	14	gull wing	
Comment	Package: K7 SO 14 .15 TO JEDEC MS-012; MDF valid for TS914AIYDT			

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	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
Exemption Id.	Description

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						Mfr Item Name	FBK7*0914ASW						
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	6.095	mg	supplier	die	Silicon (Si)	7440-21-3		5.946	mg	975554	45738	
				supplier	metallization	Aluminum (Al)	7429-90-5		0.023	mg	3774	177	
				supplier	Passivation	Silicon Nitride	12033-89-5		0.015	mg	2461	115	
				supplier	Passivation	Silicon Oxide	7631-86-9		0.111	mg	18212	854	
				supplier	alloy	Copper (Cu)	7440-50-8		51.106	mg	968027	393123	
Leadframe	Copper & its alloys	52.794	mg	supplier	alloy	Iron (Fe)	7439-89-6		1.232	mg	23336	9477	
				supplier	alloy	Phosphorous (P)	7723-14-0		0.016	mg	303	123	
				supplier	alloy	Zinc (Zn)	7440-66-6		0.063	mg	1193	485	
				supplier	metallization	Silver (Ag)	7440-22-4		0.377	mg	7141	2900	
				supplier	glue	Silver(Ag)	7440-22-4		1.095	mg	769501	8423	
Die attach	Other Organic Materials	1.423	mg	supplier	glue	Epoxy resin A	9003-36-5		0.100	mg	70274	769	
				supplier	glue	Epoxy resin B	25068-38-6		0.057	mg	40056	438	
				supplier	glue	gamma -Butyrolactone	96-48-0		0.057	mg	40056	438	
				supplier	glue	Polyoxypropylenediamine	9046-10-0		0.057	mg	40056	438	
				supplier	glue	Fatty acids,C18-unsatd., dimers, polymers w/	68475-94-5		0.057	mg	40056	438	
Bonding wires	Precious metals	0.346	mg	supplier	wire	Gold (Au)	7440-57-5		0.346	mg	1000000	2662	
				supplier	gold compound	Epoxy Resin A	25068-38-6		5.364	mg	80012	41262	
Encapsulation	Other Organic Materials	67.040	mg	supplier	gold compound	Epoxy Resin B	Proprietary		1.676	mg	25000	12892	
				supplier	gold compound	Silica Amorphous	60676-86-0		56.983	mg	849985	438331	
				supplier	gold compound	Carbon Black	1333-86-4		0.335	mg	4997	2577	
				supplier	gold compound	Phenol Resin	205830-20-2		2.682	mg	40006	20631	
				supplier	gold compound	Connection coating	Tin (Sn)	7440-31-5		2.303	mg	1000000	17715
Finishing	Other inorganic materials	2.303	mg	supplier	Connection coating	Tin (Sn)	7440-31-5		2.303	mg	1000000	17715	