



## Materials Declaration Form

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

Supplier Information			
<b>Company Name *</b>	<b>STMicroelectronics</b>	<b>Response Date *</b>	<b>2016-05-03</b>
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	<b>Floriana San Biagio</b>	<b>Representative Title</b>	<b>AMG MD CHAMPION</b>
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty Statement**

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**Legal Statement**

<b>Supplier Acceptance *</b>	<b>true</b>	<b>Legal Declaration *</b>	<b>Standard</b>
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**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
	AYX0*0462AS6	A	SA1A	2016-05-03
Amount	UoM	Unit type	ST ECOPACK Grade	
22.55	mg	Each	ECOPACK® 1	
	Comment	ECOPACK® or ECOPACK® 1 is STMicroelectronics trade name for ROHS compliant devices		

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, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	3x3x1	8	No lead	
Comment	Package: X0 VDFPN 3x3x1.0 8 PITCH 0.50; MDF valid for TS972IYQT			

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
Exemption Id.	Description

QueryList : REACH-17th December 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	AYX0*0462A56					
note : Substance present with less 0.001mg will not be declared in this document												
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	0.694	mg	supplier	die	Silicon (Si)	7440-21-3		0.689	mg	992795	30554
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	2882	89
				supplier	Passivation	Silicon Nitride	12033-89-5		0.002	mg	2882	89
				supplier	Passivation	Silicon Oxide	7631-86-9		0.001	mg	1441	44
Leadframe	Copper & its alloys	10.597	mg	supplier	alloy	Copper (Cu)	7440-50-8		10.475	mg	988487	464523
				supplier	alloy	Phosphorus (P)	12185-10-3		0.022	mg	2076	976
				supplier	alloy	Zinc (Zn)	7440-66-6		0.008	mg	755	355
				supplier	alloy	Silver (Ag)	7440-22-4		0.092	mg	8682	4080
Die attach	Other Organic Materials	0.213	mg	supplier	glue	Silver(Ag)	7440-22-4		0.170	mg	798122	7539
				supplier	glue	Epoxy resin	9003-36-5		0.039	mg	183099	1729
				supplier	glue	t-Butyl phenyl glycidyl	3101-60-8		0.004	mg	18779	177
				supplier	wire	Gold (Au)	7440-57-5		0.083	mg	1000000	3681
Encapsulation	Other Organic Materials	10.297	mg	supplier	mold compound	Silica, vitreous	60676-86-0		9.757	mg	947558	432683
				supplier	mold compound	Phenol Resin	Proprietary		0.391	mg	37972	17339
				supplier	mold compound	Carbon black	1333-86-4		0.033	mg	3205	1463
				supplier	mold compound	Brominated epoxy resin	40039-93-8		0.058	mg	5633	2572
connections coating	Solder	0.666	mg	supplier	mold compound	AntimonyTrioxide	1309-64-3		0.058	mg	5633	2572
				supplier	solder alloy	Tin (Sn)	7440-31-5		0.666	mg	1000000	29534