



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 *	2017-05-10
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		

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
	8MWQ*UK37AB6	A	Z7GA	2017-05-10
Amount	UoM	Unit type	ST ECOPACK Grade	
21.00	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
ating is used or other bulk terminati	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		



Package Designator	Size	Nbr of instances	Shape	
QFN	3x3x1	10	No lead	
Comment	Package: WQ VDFPN 3x3x1.0 10 PITCH 0.50; MDF valid for L6984ATR			

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	8MWQ*UK37AB6					
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	2.033	mg	supplier	die	Silicon (Si)	7440-21-3		1.884	mg	926709	89714
				supplier	metallization	Aluminium (Al)	7429-90-5		0.023	mg	11313	1095
				supplier	metallization	Tungsten (W)	7440-33-7		0.037	mg	18200	1762
				supplier	Passivation	Silicon Nitride	12033-89-5		0.006	mg	2951	286
				supplier	Passivation	Silicon Oxide	7631-86-9		0.054	mg	26562	2571
				supplier	glass coating	Glass: Silicon Dioxide	7631-86-9		0.002	mg	984	95
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.027	mg	13281	1286
				supplier	alloy	Copper (Cu)	7440-50-8		6.293	mg	965480	299667
Leadframe	Copper & its alloys	6.518	mg	supplier	alloy	Iron (Fe)	7439-89-6		0.144	mg	22093	6857
				supplier	alloy	Phosphorus (P)	12185-10-3		0.003	mg	460	143
				supplier	alloy	Zinc (Zn)	7440-66-6		0.009	mg	1381	429
				supplier	metallization	Nickel (Ni)	7440-02-0		0.065	mg	9972	3095
				supplier	metallization	Palladium (Pd)	7440-05-3		0.003	mg	460	143
				supplier	metallization	Gold (Au)	7440-57-5		0.001	mg	153	48
				supplier	metallization	Nickel (Ni)	7440-02-0		0.065	mg	9972	3095
				supplier	metallization	Palladium (Pd)	7440-05-3		0.003	mg	460	143
Die attach	Other Organic Materials	0.366	mg	supplier	glue	Aluminum oxide	1344-28-1		0.128	mg	349727	6095
				supplier	glue	Diethylene glycol monoethyl ether acetate	112-15-2		0.110	mg	300546	5238
				supplier	glue	Epoxy resin 1	25068-38-6		0.073	mg	199454	3476
				supplier	glue	Epoxy resin 2	Proprietary		0.037	mg	101093	1762
				supplier	glue	Amine	Proprietary		0.018	mg	49180	857
				supplier	wire	Gold (Au)	7440-57-5		0.106	mg	1000000	5048
				supplier	mold compound	Silica fused	60676-86-0		10.823	mg	903649	515381
				supplier	mold compound	Epoxy resin	25068-38-6		0.562	mg	46923	26762
Encapsulation	Other Organic Materials	11.977	mg	supplier	mold compound	Phenol resin	29690-82-2		0.562	mg	46923	26762
				supplier	mold compound	Carbon black	1333-86-4		0.012	mg	1002	571
				supplier	mold compound	Amine	Proprietary		0.018	mg	1503	857
				supplier	mold compound	Amine	Proprietary		0.018	mg	1503	857