

Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute	Version	4
Sectionals *	Material Info	Subsectionals *	A-D
	Manufacturing Info		* : Required Field

Supplier Information								
Company Name *	STMicroelectronics	Response Date *	2017-07-19					
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section					
Authorized Representative *	Antonella Lanzafame	Representative Title	AMG MD CHAMPION					
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section					
Sunnlier Comment	Online Technical Support - STMicroele http://www.st.com/web/en/support/							

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 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				
ST3232BTR	EU6S*UW55AA6	А	Z8GA	2017-07-19				
	Amount	Unit type	ST ECOPACK Grade					
	54.50	mg	Each	ECOPACK® 3				
,		ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony						

Manufacturing information								
J-STD-020 MSL Rating								
1	260	3						
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life.augmented				
NAC	Tin (Sn), matte, annealed	Copper Alloy		moraagmomoa				

Package Designator	Size	Nbr of instances	Shape	
DSO	5.0X4.4X0.9	16	gull wing	
Comment	Package: 6S TSSOP 16 BODY 4.4 PITCH	0.65		

QueryList: ROHS directive 2011/65/EU _ July 2011								
	Query Response							
1 - Product(s) meets EU RoHS requirement without any exemptions								
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)								
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s) false								
4 - Product(s) does not meet EU RoHS req	uirements and is not under exemptions	false						
Exemption Id.	Exemption Id. Description							

Query : California Prop65 list, dated 14 August 2015						
Query						
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen						
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen						
Substance amount in product (mg) Application						
Nickel 0.60 metallization						

QueryList: REACH-12th January 2017							
Query							
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH							
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application							

Naterial Composition Declaration: ote: Substance present with less 0.001mg will not be declared in this document				Mfr Item Name	EU6S*U	W55AA6						
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	2.928	mg	supplier	die	Silicon (Si)	7440-21-3		2.826	mg	965164	51853
				supplier	metallization	Aluminium (Al)	7429-90-5		0.023	mg	7855	422
				supplier	Passivation	Silicon Nitride	12033-89-5		0.009	mg	3074	165
				supplier	Passivation	Silicon Oxide	7631-86-9		0.039	mg	13320	716
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.031	mg	10587	569
Leadframe	Copper & its alloys	19.135	mg	supplier	alloy	Copper (Cu)	7440-50-8		18.069	mg	944291	331541
				supplier	alloy	Nickel (Ni)	7440-02-0		0.603	mg	31513	11064
				supplier	alloy	Magnesium (Mg)	7439-95-4		0.031	mg	1620	569
				supplier	alloy	Silicon (Si)	7440-21-3		0.133	mg	6951	2440
				supplier	metallization	Silver (Ag)	7440-22-4		0.299	mg	15626	5486
Die attach	Other Organic Materials	0.499	mg	supplier	glue	Silver(Ag)	7440-22-4		0.389	mg	779559	7138
				supplier	glue	Acrylate resins	Proprietary		0.090	mg	180361	1651
				supplier	glue	Heterocyclic organic compound	Proprietary		0.010	mg	20040	183
				supplier	glue	Treated silica	Proprietary		0.010	mg	20040	183
Bonding wires	Precious metals	0.211	mg	supplier	wire	Gold (Au)	7440-57-5		0.211	mg	1000000	3872
Encapsulation	Other Organic Materials	29.678	mg	supplier	mold compound	Silica	60676-86-0		26.847	mg	904609	492606
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.940	mg	31673	17248
				supplier	mold compound	Epoxy resin	Proprietary		0.567	mg	19105	10404
				supplier	mold compound	Phenol Resin	Proprietary		1.261	mg	42489	23138
				supplier	mold compound	Carbon Black	1333-86-4		0.063	mg	2123	1156
connections coating	Solder	2.049	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.049	mg	1000000	37596