

## **Materials Declaration Form**

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

Supplier Information								
Company Name *	STMicroelectronics	Response Date *	25-01-2018					
Company Unique ID	NL 008751171B01							
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section					
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section					
Authorized Representative *	MDG MD CHAMPION	Representative Title	MDG MD CHAMPION					
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section					
Supplier Comment	Online Technical Support - STMicroele http://www.st.com/web/en/support/s							

## **Uncertainty Statement**

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Legal	Statement
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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				
STM8AF5268TDY	9D5B*79AX25T	А	959	25-01-2018				
	Amount	UoM	Unit type	ST ECOPACK Grade				
	180.00	mg	Each	ECOPACK® 2				
		ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardar ( in each organic material)						

Manufacturing information								
J-STD-020 MSL Rating								
3	260	3						
bulk Solder Termination Terminal Plating		Terminal Base Alloy	Comment	life.augmented				
NAG	Niput	O a a a a Allera						
NAC	NiPdAu	Copper Alloy						

Package Designator	Size	Nbr of instances	Shape	
QFP	7x7x1.4	48		
Comment	Package: 5B LQFP 48 7x7x1.4 1 01105	96		

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							
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							
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							
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application							

Material Composition Declaration: note: Substance present with less 0.001mg will not be declared in this document			Mfr Item Name	9D5B*7	9AX25T			7000001.0	1000005.0			
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	6.684	mg	supplier	die	Silicon (Si)	7440-21-3		6.478	mg	969180	35989
				supplier	metallization	Aluminium (AI)	7429-90-5		0.018	mg	2693	100
				supplier	metallization	Copper (Cu)	7440-50-8		0.060	mg	8977	333
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.007	mg	1047	39
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	1346	50
				supplier	Passivation	Silicon Nitride	12033-89-5		0.016	mg	2394	89
				supplier	Passivation	Silicon Oxide	7631-86-9		0.096	mg	14363	533
Lead-frame	M-011 Other inorganic materials	75.592	mg	supplier	alloy	Copper (Cu)	7440-50-8		72.936	mg	964855	405199
				supplier	alloy	Nickel (Ni)	7440-02-0		2.097	mg	27746	11652
				supplier	alloy	Silicium (Si)	7440-21-3		0.454	mg	6012	2525
				supplier	alloy	Magnesium (Mg)	7439-95-4		0.105	mg	1387	583
Lead-frame Coating	M-011 Other inorganic materials	0.403	mg	supplier	coating	Nickel (Ni)	7440-02-0		0.369	mg	914840	2048
				supplier	coating	Palladium (Pd)	7440-05-3		0.012	mg	29660	66
				supplier	coating	Gold (Au)	7440-57-5		0.011	mg	27750	62
				supplier	coating	Silver (Ag)	7440-22-4		0.011	mg	27750	62
Die Attach	M-011 Other inorganic materials	1.954	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		1.505	mg	770000	8359
				supplier	glue or soft solder	Epoxy Cresol Novolak	29690-82-2		0.442	mg	226000	2454
				supplier	glue or soft solder	1-isopropyl-2,2-dimethyltrimethylene diisobut	6846-50-0		0.008	mg	4000	43
Wires	M-011 Other inorganic materials	0.913	mg	supplier	Bonding wire	Gold (Au)	7440-57-5		0.913	mg	1000000	5074
Encapsulation	M-011 Other inorganic materials	94.452	mg	supplier	Moulding Compound	Solid Epoxy Resin	Proprietary		6.786	mg	71847	37700
				supplier	Moulding Compound	Phenol Resin	Proprietary		4.847	mg	51319	26929
				supplier	Moulding Compound	Silica, vitreous	60676-86-0		82.043	mg	868623	455794
				supplier	Moulding Compound	Carbon-black	1333-86-4		0.485	mg	5132	2693
				supplier	Moulding Compound	Bismuth (Bi)	7440-69-9		0.145	mg	1540	808
				supplier	Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.145	mg	1540	808
Finishing	M-011 Other inorganic materials	0.002	mg	supplier	connections coating	Nickel (Ni)	7440-02-0		0.002	mg	1000000	13