



Materials Declaration Form


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

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	21-11-2023
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 - 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	<p>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.</p>

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
M95P08-IXMCT/E	CGZW*5P081EB	A	P1C7	21-11-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	16.00	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)		

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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	2x3x0.6	8	No lead	
Comment	Package : ZW UDFPN 2x3x0.6 8L 0.5MM PITCH 7558452			

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-14th June 2023				
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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	CGZW*5P081EB				7000001.0	999940.5
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	0.886	mg	supplier	die	Silicon (Si)	7440-21-3		0.829	mg	935666	51813
				supplier	metallization	Aluminium (Al)	7429-90-5		0.007	mg	7901	438
				supplier	metallization	Copper (Cu)	7440-50-8		0.021	mg	23702	1313
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.003	mg	3386	188
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	1129	63
Lead-frame	M-011 Other inorganic materials	2.994	mg	supplier	Passivation	Silicon Oxide	7631-86-9		0.025	mg	28217	1563
				supplier	alloy	Copper (Cu)	7440-50-8		2.918	mg	974500	182353
				supplier	alloy	Iron (Fe)	7439-89-6		0.070	mg	23460	4390
				supplier	alloy	Zinc (Zn)	7440-66-6		0.004	mg	1200	225
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.003	mg	840	157
Lead-frame Coating	M-011 Other inorganic materials	0.013	mg	supplier	coating	Nickel (Ni)	7440-02-0		0.012	mg	916800	748
				supplier	coating	Palladium (Pd)	7440-05-3		0.001	mg	58700	48
				supplier	coating	Gold (Au)	7440-57-5		0.000	mg	24500	20
Die Attach	M-011 Other inorganic materials	1.266	mg	supplier	glue or soft solder	Amorphous silica	7631-86-9		0.443	mg	350000	27699
				supplier	glue or soft solder	Propenenitrile polymer	68610-41-3		0.317	mg	250000	19785
				supplier	glue or soft solder	Epoxyde bisphenol A resin	25068-38-6		0.127	mg	100000	7914
				supplier	glue or soft solder	Cycloaliphatic epoxy resin	244772-00-7		0.127	mg	100000	7914
				supplier	glue or soft solder	Phenol resin	9003-35-4		0.127	mg	100000	7914
Wires	M-011 Other inorganic materials	0.018	mg	supplier	glue or soft solder	other	proprietary		0.127	mg	100000	7914
				supplier	Bonding wire	Gold (Au)	7440-57-5		0.018	mg	1000000	1129
				supplier	Moulding Compound	silica vitreous	60676-86-0		9.570	mg	884392	598154
				supplier	Moulding Compound	Biphenyl epoxy resin	85954-11-6		0.521	mg	48170	32580
				supplier	Moulding Compound	Phenolic resin	205830-20-2		0.407	mg	37573	25412
Encapsulation	M-011 Other inorganic materials	10.822	mg	supplier	Moulding Compound	Epoxy resin	Proprietary		0.209	mg	19268	13032
				supplier	Moulding Compound	carbon black	1333-86-4		0.021	mg	1927	1303
				supplier	Moulding Compound	other	Proprietary		0.094	mg	8671	5864
				supplier	connections coating	Nickel (Ni)	7440-02-0		0.000	mg	916800	7
				supplier	connections coating	Palladium (Pd)	7440-05-3		0.000	mg	58700	0
Finishing	M-011 Other inorganic materials	0.000	mg	supplier	connections coating	Gold (Au)	7440-57-5		0.000	mg	24500	0