


Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
M34E04B-FMC9TG	CGZW*34E4BTA	A	P1C7	2017-03-11
	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 UFD FPN 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-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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	CGZW*34E4BTA				5999999.0	1000004.0
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	0.174	mg	supplier	die	Silicon (Si)	7440-21-3		0.165	mg	948276	10313
				supplier	metallization	Aluminium (Al)	7429-90-5		0.001	mg	5747	63
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	5747	63
				supplier	Passivation	Silicon Oxide	7631-86-9		0.007	mg	40230	438
Lead-frame	M-011 Other inorganic materials	3.007	mg	supplier	alloy	Copper (Cu)	7440-50-8		2.918	mg	970270	182353
				supplier	alloy	Iron (Fe)	7439-89-6		0.070	mg	23358	4390
				supplier	alloy	Zinc (Zn)	7440-66-6		0.004	mg	1195	225
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.003	mg	836	157
				supplier	coating	Nickel (Ni)	7440-02-0		0.012	mg	3980	748
				supplier	coating	Palladium (Pd)	7440-05-3		0.001	mg	255	48
				supplier	coating	Gold (Au)	7440-57-5		0.000	mg	106	20
Die Attach	M-011 Other inorganic materials	0.335	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		0.229	mg	684000	14341
				supplier	glue or soft solder	methylene diacrylate	42594-17-2		0.084	mg	250000	5242
				supplier	glue or soft solder	Dicyclopentenyloxyethyl methacrylate	68586-19-6		0.010	mg	30000	629
				supplier	glue or soft solder	Polymer of Polybutadiene + Anhydride	Proprietary		0.010	mg	30000	629
				supplier	glue or soft solder	Palladium (Pd)	7440-05-3		0.000	mg	1000	21
Wires	M-011 Other inorganic materials	0.011	mg	supplier	glue or soft solder	Bis(α,α-dimethylbenzyl) peroxide	80-43-3		0.002	mg	5000	105
				supplier	Bonding wire	Copper (Cu)	7440-50-8		0.011	mg	1000000	664
Encapsulation	M-011 Other inorganic materials	12.473	mg	supplier	Moulding Compound	silica vitreous	60676-86-0		10.967	mg	879308	685463
				supplier	Moulding Compound	Phenolic resin	Proprietary		0.572	mg	45883	35768
				supplier	Moulding Compound	Biphenyl epoxy resin	85954-11-6		0.448	mg	35908	27992
				supplier	Moulding Compound	carbon black	1333-86-4		0.025	mg	1995	1555
				supplier	Moulding Compound	Zinc hydroxide	20427-58-1		0.012	mg	997	778
Finishing	M-011 Other inorganic materials	0.000	mg	supplier	Moulding Compound	Biphenyl epoxy resin	85954-11-6		0.448	mg	35908	27992
				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
				supplier	connections coating	Gold (Au)	7440-57-5		0.000	mg	24500	0