



Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM8AF5286UAX	1H42*79AX25T	A	9996	2023-06-03
	Amount	UoM	Unit type	ST ECOPACK Grade
	71.19	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
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable ; if coating is used or other bulk termination : add in comments	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	5x5x1.0	32	flat	
Comment	Package : 42 VFQFPN 5X5x1.0 32L PITCH 0.5 7376875			

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-10 Jun 2022				
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	1H42*79AX25T				6999999.0	1000006.3
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	4.302	mg	supplier	die	Silicon (Si)	7440-21-3		4.096	mg	952115	57532
				supplier	metallization	Aluminium (Al)	7429-90-5		0.018	mg	4184	253
				supplier	metallization	Copper (Cu)	7440-50-8		0.060	mg	13947	843
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.007	mg	1627	98
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	2092	126
				supplier	Passivation	Silicon Nitride	12033-89-5		0.016	mg	3719	225
Leadframe (C194)	Copper and its alloy	32.617	mg	supplier	Passivation	Silicon Oxide	7631-86-9		0.096	mg	22315	1348
				supplier	ALLOY	Iron (Fe)	7439-89-6		0.767	mg	23500	10766
				supplier	ALLOY	Phosphorus (P)	7723-14-0		0.010	mg	300	137
				supplier	ALLOY	Zinc (Zn)	7440-66-6		0.039	mg	1200	550
				supplier	ALLOY	Copper (Cu)	7440-50-8		31.802	mg	975000	446687
Leadframe Plating (Ag Plating)	M-011 Other inorganic materials	0.658	mg	supplier	COATING	Silver (Ag)	7440-22-4		0.658	mg	1000000	9248
Glue Epoxy (1234-100)	M-011 Other inorganic materials	0.356	mg	supplier	GLUE	Silver	7440-22-4		0.278	mg	780000	3905
				supplier	GLUE	Carbocyclic acrylate	Proprietary		0.036	mg	100000	501
				supplier	GLUE	Bismaleimide Resin	13676-54-5		0.036	mg	100000	501
				supplier	GLUE	2-Propenoic acid, 2-methyl-, 2-[[2,3,3a,4,7,7a]]	68586-19-6		0.004	mg	10000	50
Wire (Au)	M-011 Other inorganic materials	0.016	mg	supplier	GLUE	2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane	3388-04-3		0.004	mg	10000	50
				supplier	BONDING WIRE	Gold (Au)	7440-57-5		0.016	mg	999900	220
				supplier	BONDING WIRE	Others	Proprietary		0.000	mg	100	0
Encapsulation (EME-G700Y)	M-011 Other inorganic materials	31.370	mg	supplier	MOLDING COMPOUND	Epoxy Resin	Proprietary		2.196	mg	70000	30844
				supplier	MOLDING COMPOUND	Phenol Resin	Proprietary		0.784	mg	25000	11016
				supplier	MOLDING COMPOUND	Silica(Amorphous) A	60676-86-0		22.587	mg	720000	317249
				supplier	MOLDING COMPOUND	Silica(Amorphous) B	7631-86-9		5.647	mg	180000	79312
Finishing (Matte Sn)	M-011 Other inorganic materials	1.875	mg	supplier	MOLDING COMPOUND	Carbon Black	1333-86-4		0.157	mg	5000	2203
				supplier	EXTERNAL PLATING	Tin (Sn)	7440-31-5		1.875	mg	1000000	26342