



## Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2026-02-26
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	Material Declaration Champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty statement**

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**Legal statement**

Supplier acceptance\* true Legal declaration\* Standard

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.



Product				
Mfr item number	Mfr item name	Version	Manufacturing site	date
ST25DV16KC-JF8D3	CGC5*DV4P1UX	B	P1C7	16-11-2021
	Amount	UoM	Unit type	ST ECOPACK Grade
	24	mg	Each	ECOPACK® 2
<b>Identity</b>	<b>Authority</b>			
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 temperature	Number of reflow cycles	
1	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	

Package designator	Package size	Number of instances	Shape
QFN	3x3x0.6	12	No lead
Comment	Package : A06P UDFPN 12L 3X3X0.55 Pitch 0.50 DM00180694		

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015	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
<b>Exemption Id.</b>	<b>Description</b>

QueryList : ELV directive : 2000/53/EC amended 2020/363_March 2020	Response
1 - Product(s) meets EU ELV requirements without any exemptions	true
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
<b>Exemption Id.</b>	<b>Description</b>

QueryList : California Prop65 list, dated 3rd January 2025	Response		
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen	false		
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen	true		
<b>Substance</b>	<b>amount in product (mg)</b>	<b>Application</b>	<b>ppm in product</b>
Nickel	0.018	Lead-frame Coating,Finishing	750

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014	Response			
<b>QUERY</b>	<b>Response</b>			
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products	false			
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products	false			
<b>Hazardous substance</b>				
<b>Lead (Pb)</b>	<b>Cadmium (Cd)</b>	<b>Mercury (Hg)</b>	<b>Hexavalent Chromium (Cr VI)</b>	<b>PBB &amp; PBDE</b>
O	O	O	O	O

QueryList : REACH-4th February 2026	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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				
CategoryLevel_Name	CategoryLevel_Threshold	Amount in embedded article / Homogeneous material (mg)	Application - article / Homogeneous material	ppm in article /Homogeneous material



QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present is the component :	<b>Tungsten,</b>

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update	Response
The Product does contain at least one of the substances listed in Chemical Control Act	false

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	False

QueryList:Stockholm Convention Persistent Organic Pollutants (POP)	Response
Product is compliant with Annex A, B and C of Stockholm Convention Persistent Organic Pollutants	true

QueryList: EU Ship Recycling Regulation No. 1257/2013	Response
Product contains hazardous materials listed in Annex II of EU Ship Recycling Regulation No.1257/2013 and 2009/16/EC Directive	False

Other Fluorinated Substances	Response
<b>QUERY</b>	<b>Response</b>
The product is containing fluorinated substance.	False
<b>Substance Name, CAS</b>	

BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True

Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True

Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	CGC5'DV4P1UX		23.9990		7000000.0	999959.0
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	1.228	mg	supplier	die	Silicon (Si)	7440-21-3		1.164	mg	947883	48500
				supplier	metallization	Aluminium (Al)	7429-90-5		0.006	mg	4886	250
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	814	42
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	814	42
				supplier	Passivation	Silicon Nitride	12033-89-5		0.004	mg	3257	167
				supplier	Passivation	Silicon Oxide	7631-86-9		0.052	mg	42345	2167
Lead-frame	M-011 Other inorganic materials	4.491	mg	supplier	alloy	Copper (Cu)	7440-50-8		4.376	mg	974500	182353
				supplier	alloy	Iron (Fe)	7439-89-6		0.105	mg	23460	4390
				supplier	alloy	Zinc (Zn)	7440-66-6		0.005	mg	1200	225
				supplier	alloy	Iron Phosphide	26508-33-8		0.004	mg	840	157
Lead-frame Coating	M-011 Other inorganic materials	0.020	mg	supplier	coating	Nickel (Ni)	7440-02-0		0.018	mg	916800	748
				supplier	coating	Palladium (Pd)	5/3/7440		0.001	mg	58700	48
				supplier	coating	Gold (Au)	7440-57-5		0.000	mg	24500	20
Die Attach	M-011 Other inorganic materials	1.899	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		1.662	mg	875000	69248
				supplier	glue or soft solder	polymer	28630-26-4		0.152	mg	80000	6331
				supplier	glue or soft solder	aniline	67784-74-1		0.019	mg	10000	791
				supplier	glue or soft solder	epoxy resin	Proprietary		0.057	mg	30000	2374
				supplier	glue or soft solder	Epoxy resin mol	Proprietary		0.009	mg	5000	396
Wires	M-011 Other inorganic materials	0.027	mg	supplier	Bonding wire	Copper (Cu)	7440-50-8		0.027	mg	1000000	1129
Encapsulation	M-011 Other inorganic materials	16.334	mg	supplier	Moulding Compound	silica vitreous	60676-86-0		14.457	mg	885111	602383
				supplier	Moulding Compound	Biphenyl epoxy	85954-11-6		0.782	mg	47871	32580
				supplier	Moulding Compound	Phenolic resin	205830-20-2		0.610	mg	37339	25412
				supplier	Moulding Compound	Epoxy resin	Proprietary		0.313	mg	19148	13032
				supplier	Moulding Compound	carbon black	1333-86-4		0.031	mg	1915	1303
Finishing	M-011 Other inorganic materials	0.000	mg	supplier	Moulding Compound	other	Proprietary		0.141	mg	8617	5864
				supplier	connections coating	Nickel (Ni)	7440-02-0		0.000	mg	916800	7
				supplier	connections coating	Palladium (Pd)	5/3/7440		0.000	mg	58700	0
				supplier	connections coating	Gold (Au)	7440-57-5		0.000	mg	24500	0