



## Materials Declaration Form


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

*\* : Required Field*

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2016-08-19
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Giovanni Giacopello	<b>Representative Title</b>	ADG MD CHAMPION
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	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	
<b>Supplier Acceptance *</b>	true
	<b>Legal Declaration *</b> <b>Standard</b>
<b>Legal Statement</b>	<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
STPS2H100ZF	HA7Z*Z24P85V	A	Z6IA	2016-08-19
	Amount	UoM	Unit type	ST ECOPACK Grade
	12.50	mg	Each	ECOPACK® 2

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	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOT	3.6 - 1.6 - 0.98	2	flat	
Comment	Package: SOD123-FLAT NEP			

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	false
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)	true
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	false
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : REACH-20th June 2016				
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						Mfr Item Name	HA72*Z24P85V					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	0.490	mg	supplier	die	Silicon (Si)	7440-21-3		0.457	mg	932653	36560
				supplier	metallization	Aluminium (Al)	7429-90-5		0.004	mg	8163	320
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	2041	80
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	2041	80
				supplier	metallization	Nickel (Ni)	7440-02-0		0.003	mg	6122	240
				supplier	metallization	Gold (Au)	7440-57-5		0.003	mg	6122	240
				supplier	Passivation	Silicon Oxide	7631-86-9		0.004	mg	8163	320
				supplier	back side metallization	Gold (Au)	7440-57-5		0.001	mg	2041	80
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.004	mg	8163	320
				supplier	polymer die coating	Durimide	proprietary		0.012	mg	24491	960
Lead Frame and Clip	Copper & its alloys	6.235	mg	Supplier	alloy	Copper (Cu)	7440-50-8		6.227	mg	998717	498160
				Supplier	alloy	Iron (Fe)	7439-89-6		0.006	mg	962	480
				Supplier	alloy	Phosphorus (P)	12185-10-3		0.002	mg	321	160
Soft Solder	Solder	0.660	mg	Supplier	Solder	Lead (Pb)	7439-92-1	7a-Lead in high me	0.627	mg	950000	50160
				Supplier	Solder	Tin (Sn)	7440-31-5		0.033	mg	50000	2640
Encapsulation	Other Organic Materials	4.948	mg	Supplier	Mold Compound	Fused, Silica	60676-86-0		3.158	mg	638238	252640
				Supplier	Mold Compound	Aluminum hydroxide	21645-51-2		0.525	mg	106103	42000
				Supplier	Mold Compound	Epoxy resin	29690-82-2		0.825	mg	166734	66000
				Supplier	Mold Compound	Phenol resin	9003-35-4		0.425	mg	85893	34000
				Supplier	Mold Compound	Carbon black	1333-86-4		0.015	mg	3032	1200
Connection coating	Solder	0.167	mg	Supplier	Solder alloy	Tin (Sn)	7440-31-5		0.167	mg	1000000	13360