



## 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
<i>* : Required Field</i>			

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2017-02-08
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<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>	Standard

**Legal Statement**

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	Mfr Site	Date
STPS20150CR	HTI7*Z11P02R	A	3068	2017-02-08
	Amount	UoM	Unit type	ST ECOPACK Grade
	1500.00	mg	Each	ECOPACK2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
NA	NA	NA		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	4.5-10.2-10.55	2	Through-hole	
Comment	I2PAK			

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	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
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

Query : California Prop65 list, dated 27th January 2017			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			TRUE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			FALSE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.13	die back side metal - leadframe	89
Lead	6.08	soft solder	4053

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	HTI7*Z11P02R									
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	7.010	mg	supplier	die	Silicon (Si)	7440-21-3		6.622	mg	944650	4415				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.274	mg	39087	183				
				supplier	metallization	Titanium (Ti)	7440-32-6		0.006	mg	856	4				
				supplier	metallization	Tungsten (W)	7440-33-7		0.010	mg	1427	7				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.040	mg	5706	27				
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.003	mg	428	2				
				supplier	back side metallization	Gold (Au)	7440-57-5		0.010	mg	1427	7				
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.045	mg	6419	30				
				Leadframe	Copper & its alloys	839.701	mg	supplier	alloy	Copper (Cu)	7440-50-8		838.515	mg	998588	559010
								supplier	alloy	Iron (Fe)	7439-89-6		0.386	mg	460	257
supplier	alloy	Iron Phosphide (FeP)	26508-33-8						0.705	mg	840	470				
supplier	metallization	Nickel (Ni)	7440-02-0						0.088	mg	105	59				
supplier	metallization	Phosphorus (P)	12185-10-3						0.007	mg	7	5				
Soft solder	Solder	6.365	mg					JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	6.079	mg	955067	4053
				supplier	solder	Silver (Ag)	7440-22-4		0.159	mg	24980	106				
				supplier	solder	Tin (Sn)	7440-31-5		0.127	mg	19953	85				
Bonding wires	Other inorganic materials	2.769	mg	supplier	wire	Aluminium (Al)	7429-90-5		2.769	mg	1000000	1846				
				supplier	die	Silicon (Si)	7440-21-3		0.001	mg	944650	4415				
Encapsulation	Other Organic Materials	640.250	mg	supplier	mold compound	Silica, vitreous	60676-86-0		557.018	mg	870000	371345				
				supplier	mold compound	Epoxy resin	25068-38-6		64.025	mg	100000	42683				
				supplier	mold compound	Phenol resin	29690-82-2		16.006	mg	25000	10671				
				supplier	mold compound	Carbon Black	1333-86-4		3.201	mg	5000	2132				
Connections coating	Solder	3.905	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		3.905	mg	1000000	2603				