



PK510 (v1.1) March 19, 2012

# 100% Material Declaration Data Sheet for Spartan®-3/-3E PQ208 (Cu Wire)

**Average Weight: 5.450 g**

Component	Substance Description	CAS# or Description	% of Component	Use in Product	Component Weight/ Substance Weight (in grams)	Component % of Total
<b>Silicon Die</b>					<b>0.029935</b>	<b>0.549</b>
	Silicon	7440-21-3	100.00		0.029935	
<b>Mold Compound</b>					<b>5.036337</b>	<b>92.410</b>
	Silica Fused	60676-86-0	77.40		3.898125	
	Epoxy Resin	Trade Secret	7.00		0.352544	
	Phenol Resin	Trade Secret	5.00		0.251817	
	Carbon Black	1333-86-4	0.30		0.015109	
	Silica Fused	7631-86-9	10.00		0.503634	
	Silica, crystalline	14808-60-7	0.30		0.015109	
<b>Die Attach Adhesive</b>					<b>0.003992</b>	<b>0.073</b>
	Silver	7440-22-4	73.00		0.002914	
	Epoxy Resin	Trade secret	13.50		0.000539	
	Anhydride	Trade Secret	10.50		0.000419	
	1,4-Butanedioldoglycidyl ether	Trade Secret	3.00		0.000120	
<b>Solder Plating</b>					<b>0.033200</b>	<b>0.609</b>
	Tin (Sn)	7440-31-5	85.00		0.028220	
	Lead (Pb)	7439-92-1	15.00		0.004980	
<b>Copper Wire</b>					<b>0.001737</b>	<b>0.032</b>
	Copper (Cu)	7440-50-8	97.28		0.001690	
	Palladium	7440-05-3	2.70		0.000047	
	Impurities	N/A	0.02		0.000000	

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<b>Lead Frame</b>					<b>0.338799</b>	<b>6.216</b>
	Copper (Cu)	7440-50-8	94.30		0.319826	
	Magnesium (Mg)	7439-95-4	0.18		0.000593	
	Nickel (Ni)	7440-02-0	3.20		0.010842	
	Silicon (Si)	7440-21-3	0.73		0.002456	
	Silver (Ag)	7440-22-4	1.50		0.005082	
<b>Lead Frame Tape</b>					<b>0.006000</b>	<b>0.110</b>
	Polyimide	Trade Secret	43.00		0.002580	
	Poly – ethylene – terephthalate	25038-59-9	25.00		0.001500	
	NBR	9003-18-3	12.00		0.000720	
	Bismaleimide	79922-55-7	10.00		0.000600	
	Phenol Resin	28453-20-5	10.00		0.000600	

**Revision History**

The following table shows the revision history for this document.

Date	Version	Description of Revisions
09/16/11	1.0	Initial Xilinx release.
03/19/12	1.1	Device family update.

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