

# Material Declaration Form

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ams AG  
Tobelbader Strasse 30  
A-8141 Premstaetten, Austria  
Tel +43 (0) 3136 500-0



Ordering Code	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China RoHS	Release Status	Version
AS1130-BWLT	WLCSP	187280003	20	22.81	USA	YES	YES	YES	PROTOS	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Laminate	0.32	SiO2	Silica	20.00	7631-86-9	0.06480	0.28404	2840
			Carbon Black	0.30	1333-86-4	0.00097	0.00426	43
			Phenol/ formaldehyde/ epichloronhydrin copolymer	5.70	9003-36-5	0.01847	0.08095	810
			Polyethylene terephthalate	74.00	25038-59-9	0.23976	1.05093	10509
			<b>Subtotal:</b>	<b>100.00</b>		<b>0.32400</b>	<b>1.42018</b>	<b>14202</b>
Solder Balls	2.09	Ag	Silver	1.00	7440-22-4	0.02090	0.09161	916
		Cu	Copper	0.50	7440-50-8	0.01045	0.04581	458
		Ni	Nickel	0.08	7440-02-0	0.00167	0.00733	73
		Sn	Tin	98.42	7440-31-5	2.05698	9.01630	90163
			<b>Subtotal:</b>	<b>100.00</b>		<b>2.09000</b>	<b>9.16104</b>	<b>91610</b>
Target	0	Ti	Titanium	100.00	7440-32-6	0.00000	0.00000	0
			<b>Subtotal:</b>	<b>100.00</b>		<b>0.00000</b>	<b>0.00000</b>	<b>0</b>
IC	4.4	Si	Silicon	100.00	7440-21-3	4.40000	19.28640	192864
			<b>Subtotal:</b>	<b>100.00</b>		<b>4.40000</b>	<b>19.28640</b>	<b>192864</b>
Target	0	Cu	Copper	100.00	7440-50-8	0.00000	0.00000	0
			<b>Subtotal:</b>	<b>100.00</b>		<b>0.00000</b>	<b>0.00000</b>	<b>0</b>
Spheron	16		Polymeric resin	100.00	68139-70-8	16.00000	70.13237	701324
			<b>Subtotal:</b>	<b>100.00</b>		<b>16.00000</b>	<b>70.13237</b>	<b>701324</b>

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Target	0	Al	Aluminum	100.00	7429-90-5	0.00000	0.00000	0
		<b>Subtotal:</b>		<b>100.00</b>		<b>0.00000</b>	<b>0.00000</b>	<b>0</b>
	0	Ni	Nickel	93.00	7440-02-0	0.00000	0.00000	0
		V	Vanadium	7.00	7440-62-2	0.00000	0.00000	0
		<b>Subtotal:</b>		<b>100.00</b>		<b>0.00000</b>	<b>0.00000</b>	<b>0</b>
<b>Total:</b>	<b>22.81</b>					<b>22.81</b>	<b>100.00000</b>	<b>1000000</b>

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