

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
AS5510-DWLM	WLCSP	184550022	6	1.81	Philippines	YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
IC	1.34	Si	Silicon	100.00	7440-21-3	1.33663	73.73062	737306
Subtotal:				100.00		1.33663	73.73062	737306
PBO 1	0.01	BLO (1-10)	Gamma Butyrolactone	50.00	96-48-0	0.00528	0.29098	2910
			Polyamide	50.00	63428-83-1	0.00528	0.29098	2910
Subtotal:				100.00		0.01055	0.58195	5820
PBO 2	0.01	BLO (1-10)	Gamma Butyrolactone	50.00	96-48-0	0.00456	0.25173	2517
			Polyamide	50.00	63428-83-1	0.00456	0.25173	2517
Subtotal:				100.00		0.00913	0.50346	5035
UBM Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00003	0.00165	17
		W	Tungsten	90.00	7440-33-7	0.00027	0.01489	149
Subtotal:				100.00		0.00030	0.01655	165
UBM Seed Layer Cu	0	Cu	Copper	100.00	7440-50-8	0.00046	0.02554	255
Subtotal:				100.00		0.00046	0.02554	255
UBM Cu	0.02	Cu	Copper	100.00	7440-50-8	0.02083	1.14901	11490
Subtotal:				100.00		0.02083	1.14901	11490
RDL Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00004	0.00224	22
		W	Tungsten	90.00	7440-33-7	0.00037	0.02016	202
Subtotal:				100.00		0.00041	0.02240	224
RDL Seed Layer Cu	0	Cu	Copper	100.00	7440-50-8	0.00063	0.03448	345
Subtotal:				100.00		0.00063	0.03448	345

The information provided in this statement represents ams AG knowledge and belief as of the date that it is provided. ams AG bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. ams AG has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. ams AG and its suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
RDL Cu	0.01	Cu	Copper	100.00	7440-50-8	0.01250	0.68963	6896
Subtotal:				100.00		0.01250	0.68963	6896
Solder Balls	0.37	Ag	Silver	4.00	7440-22-4	0.01464	0.80756	8076
		Cu	Copper	0.50	7440-50-8	0.00183	0.10095	1009
		Sn	Tin	95.50	7440-31-5	0.34953	19.28058	192806
Subtotal:				100.00		0.36600	20.18909	201891
Laminate	0.06	SiO2	Silica	20.00	7631-86-9	0.01108	0.61145	6115
			Carbon Black	0.30	1333-86-4	0.00017	0.00917	92
			Phenol/ formaldehyde/ epichloronhydrin copolymer	5.70	9003-36-5	0.00316	0.17426	1743
			Polyethylene terephthalate	74.00	25038-59-9	0.04101	2.26238	22624
Subtotal:				100.00		0.05542	3.05727	30573
Total:	1.81					1.81	100.00000	1000000

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