

# Product Document

# 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
AS5245-HMFP	MLF	177710115	32	135.18	Philippines	YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Leadframe	71.01	Ag	Silver	0.30	7440-22-4	0.21303	0.15759	1576
		Cu	Copper	97.25	7440-50-8	69.05723	51.08539	510854
		Fe	Iron	2.30	7439-89-6	1.63323	1.20819	12082
		Zn	Zinc	0.15	7440-66-6	0.10652	0.07879	788
<b>Subtotal:</b>				<b>100.00</b>		<b>71.01000</b>	<b>52.52996</b>	<b>525300</b>
Adhesive Bottom IC	0.98	Ag	Silver	84.00	7440-22-4	0.82068	0.60710	6071
			Epoxy Resin	16.00	25928-94-3	0.15632	0.11564	1156
<b>Subtotal:</b>				<b>100.00</b>		<b>0.97700</b>	<b>0.72274</b>	<b>7227</b>
IC Bottom	3.99	Si	Silicon	95.00	7440-21-3	3.78575	2.80053	28005
			Polyimide	5.00	58698-66-1	0.19925	0.14740	1474
<b>Subtotal:</b>				<b>100.00</b>		<b>3.98500</b>	<b>2.94792</b>	<b>29479</b>
Adhesive Spacer	0.28	SiO2	Silica Fused	34.00	60676-86-0	0.09588	0.07093	709
			Epoxy Resin	66.00	25928-94-3	0.18612	0.13768	1377
<b>Subtotal:</b>				<b>100.00</b>		<b>0.28200</b>	<b>0.20861</b>	<b>2086</b>
Spacer	2.34	Si	Silicon	100.00	7440-21-3	2.33900	1.73029	17303
<b>Subtotal:</b>				<b>100.00</b>		<b>2.33900</b>	<b>1.73029</b>	<b>17303</b>
Adhesive Top IC	0.28	SiO2	Silica Fused	34.00	60676-86-0	0.09588	0.07093	709
			Epoxy Resin	66.00	25928-94-3	0.18612	0.13768	1377
<b>Subtotal:</b>				<b>100.00</b>		<b>0.28200</b>	<b>0.20861</b>	<b>2086</b>

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)
IC Top	3.99	Si	Silicon	95.00	7440-21-3	3.78575	2.80053	28005
			Polyimide	5.00	58698-66-1	0.19925	0.14740	1474
<b>Subtotal:</b>				<b>100.00</b>		<b>3.98500</b>	<b>2.94792</b>	<b>29479</b>
Wire	1.11	Au	Gold	99.00	7440-57-5	1.09890	0.81292	8129
			Pd	1.00	7440-05-3	0.01110	0.00821	82
<b>Subtotal:</b>				<b>100.00</b>		<b>1.11000</b>	<b>0.82113</b>	<b>8211</b>
Moldcompound	48.76	SiO2	Silica Fused	85.00	60676-86-0	41.44600	30.65986	306599
			Carbon Black	0.30	1333-86-4	0.14628	0.10821	1082
			Epoxy Resin	9.00	25928-94-3	4.38840	3.24634	32463
			Phenol Resin	5.70	28064-14-4	2.77932	2.05601	20560
<b>Subtotal:</b>				<b>100.00</b>		<b>48.76000</b>	<b>36.07042</b>	<b>360704</b>
Plating	2.45	Sn	Tin	100.00	7440-31-5	2.45000	1.81240	18124
<b>Subtotal:</b>				<b>100.00</b>		<b>2.45000</b>	<b>1.81240</b>	<b>18124</b>
<b>Total:</b>	<b>135.18</b>					<b>135.18</b>	<b>100.00000</b>	<b>1000000</b>

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