

# Material Declaration Form

Page 1

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



Ordering Code	Production Version	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China Rohs	Release Status	Report Version
AS5116-HSOM	512160034P1	XDLF IDF SOIC; 150	512160034	8	80.6		YES	YES	YES	PROTOS	1

## Production Version: 512160034P1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
IC	5.4	Si	Silicon	100.00	7440-21-3	5.40000	6.69975	66998
<b>Subtotal:</b>				<b>100.00</b>		<b>5.40000</b>	<b>6.69975</b>	<b>66998</b>
Leadframe	28.9	Ag	Silver	0.30	7440-22-4	0.08670	0.10757	1076
		Cu	Copper	95.90	7440-50-8	27.71510	34.38598	343860
		Mg	Magnesium	0.15	7439-95-4	0.04335	0.05378	538
		Ni	Nickel	3.00	7440-02-0	0.86700	1.07568	10757
		Si	Silicon	0.65	7440-21-3	0.18785	0.23306	2331
<b>Subtotal:</b>				<b>100.00</b>		<b>28.90000</b>	<b>35.85608</b>	<b>358561</b>
Leadframe (Internal Plating)	0.2	Ag	Silver	100.00	7440-22-4	0.20000	0.24814	2481
<b>Subtotal:</b>				<b>100.00</b>		<b>0.20000</b>	<b>0.24814</b>	<b>2481</b>
Plating	0.9	Sn	Tin	100.00	7440-31-5	0.90000	1.11663	11166
<b>Subtotal:</b>				<b>100.00</b>		<b>0.90000</b>	<b>1.11663</b>	<b>11166</b>

The information provided in this statement represents our knowledge and belief as of the date that it is provided. We base our knowledge and belief on information provided by third parties and make no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. We have taken and continue 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. We and our 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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Page 2

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Adhesive	0.4	Ag	Silver	79.00	7440-22-4	0.31600	0.39206	3921
		C15H16O2	Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	1.00	25068-38-6	0.00400	0.00496	50
			Epoxy Resin	5.00	Proprietary	0.02000	0.02481	248
			Formaldehyde, polymer with aniline, maleated, cyclized	10.00	67784-74-1	0.04000	0.04963	496
			Modified Resin	5.00	Proprietary	0.02000	0.02481	248
<b>Subtotal:</b>				<b>100.00</b>		<b>0.40000</b>	<b>0.49628</b>	<b>4963</b>
Wire	0.1	Au	Gold	99.00	7440-57-5	0.09900	0.12283	1228
		Pd	Palladium	1.00	7440-05-3	0.00100	0.00124	12
<b>Subtotal:</b>				<b>100.00</b>		<b>0.10000</b>	<b>0.12407</b>	<b>1241</b>
Moldcompound	44.7	SiO2	Silica Fused	86.00	60676-86-0	38.44200	47.69479	476948
			Carbon Black	0.50	1333-86-4	0.22350	0.27730	2773
			Epoxy Resin	7.50	25928-94-3	3.35250	4.15943	41594
			Phenol Resin	6.00	28064-14-4	2.68200	3.32754	33275
<b>Subtotal:</b>				<b>100.00</b>		<b>44.70000</b>	<b>55.45906</b>	<b>554591</b>
<b>Total:</b>	<b>80.6</b>					<b>80.60</b>	<b>100.00000</b>	<b>1000000</b>

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