

Materials Composition Declaration

Substance present with less 0.001mg will not be declared in this document

Part Number	Package description	Product weight (mg)	Moisture Sensitivity Level (J-STD-020)	Environmental Compliance Info
BOS1211AQ	QFN 24L 4.0mm x 4.0mm	41,977	3	<u>Quality – Boréas Technologies (boreas.ca)</u>

Homogeneous material	Substance (Mfr Item Name)	CAS	Material group	Mass	Concentration in homogeneous material		Concentration in product	
				(mg)	(%)	(ppm)	(%)	(ppm)
Die	Silicon(Si)	7440-21-3	Other inorganic materials	1,088	98%	980848	3%	25923
	Aluminium(Al)	7429-90-5	Non-ferrous metals and alloys	0,011	1%	9618	0%	254
	Phosphorus(P)	7723-14-0	Other inorganic materials	0,001	0%	584	0%	15
	Titanium(Ti)	7440-32-6	Non-ferrous metals and alloys	0,003	0%	3015	0%	80
	Tungsten(W)	7440-33-7	Other precious metals	0,007	1%	5936	0%	157
subtotal				1,109	100%	1000000	3%	26430
Leadframe	Copper(Cu)	7440-50-8	Non-ferrous metals and alloys	17,786	97%	970599	42%	423700
	Iron(Fe)	7439-89-6	Steels and ferrous materials	0,419	2%	22891	1%	9993
	Phosphorus(P)	7723-14-0	Other inorganic materials	0,027	0%	1493	0%	652
	Zinc(Zn)	7440-66-6	Non-ferrous metals and alloys	0,005	0%	299	0%	130
	Silver(Ag)	7440-22-4	Precious metals	0,086	0%	4718	0%	2060
subtotal				18,324	100%	1000000	44%	436534
Die attach	Silver(Ag)	7440-22-4	Precious metals	0,147	75%	750000	0%	3492
	Epoxy Resin	9003-36-5	Organic materials	0,029	15%	150000	0%	698
	Epoxy Resin A	Proprietary	Organic materials	0,014	7%	70000	0%	326
	Phenol Resin	Proprietary		0,004	2%	20000	0%	93
	Dicyandiamide	461-58-5		0,002	1%	10000	0%	47
subtotal				0,195	100%	1000000	0%	4656
Bonding wires	Copper(Cu)	7440-50-8	Non-ferrous metals and alloys	0,101	97%	965000	0%	2399
	Palladium(Pd)	7440-05-3	Precious metals	0,003	3%	30000	0%	75
	(Gold(Au))	7440-57-5	Precious metals	0,001	1%	5000	0%	12
subtotal				0,104	100%	1000000	0%	2486
Plating	TIN(Sn)	7440-31-5	Non-ferrous metals and alloys	0,278	100%	1000000	1%	6628
subtotal				0,278	100%	1000000	1%	6628
Encapsulation (Mold Compound)	Epoxy Resin B	Proprietary	Organic materials	0,659	3%	30000	2%	15698
	Phenol Resin	Proprietary		0,659	3%	30000	2%	15698
	Silica (Amorphous)A	60676-86-0	Other inorganic materials	17,243	79%	785000	41%	410764
	Silica (Amorphous)B	7631-86-9	Other inorganic materials	3,295	15%	150000	8%	78490
	Carbon Black	1333-86-4	Other organic materials	0,110	1%	5000	0%	2616
subtotal				21,965	100%	1000000	52%	523266
total				41,977			100%	

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