

Materials Declaration

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Product Family : FEG - 5x7mm Crystal Glass Seal Type

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Alumina	Alumina (Al ₂ O ₃)	31.536	23.28%	1344-28-1
		Silicon Dioxide (SiO ₂)	0.864	0.638%	14808-60-7
		Titanium Oxide (TiO ₂)	0.864	0.638%	13463-67-7
		Sodium Oxide (Na ₂ O)	0.048	0.035%	1313-59-3
		Iron Oxide (Fe ₂ O ₃)	0.864	0.638%	1309-37-1
		Manganese Dioxide (MnO ₂)	0.768	0.567%	1313-13-9
	Seal Glass	Lead Oxide (PbO)	10.080	7.442%	1317-36-8
		Titanium Oxide (TiO ₂)	0.816	0.602%	13463-67-7
		Bismuth Oxide (Bi ₂ O ₃)	0.768	0.567%	1304-76-3
		Boron Oxide (B ₂ O ₃)	0.384	0.283%	1303-86-2
		Zinc Oxide (ZnO)	0.336	0.248%	1314-13-2
		Iron Oxide (Fe ₂ O ₃)	0.288	0.213%	1309-37-1
		Copper Oxide (CuO)	0.144	0.106%	1317-38-0
		Calcium Oxide (CaO)	0.096	0.071%	1305-78-8
	Silicon Dioxide (SiO ₂)	0.096	0.071%	14808-60-7	
Base	Ceramic	Alumina (Al ₂ O ₃)	53.630	39.594%	1344-28-1
		Silicon Dioxide (SiO ₂)	1.798	1.327%	14808-60-7
		Chromium Oxide (Cr ₂ O ₃)	3.224	2.380%	1308-38-9
		Titanium Oxide (TiO ₂)	0.310	0.229%	13463-67-7
		Magnesium Oxide (MgO)	0.310	0.229%	1309-48-4
		Calcium Oxide (CaO)	0.310	0.229%	1305-78-8
	Conductor	Tungsten (W)	1.922	1.419%	7440-33-7
		Molybdenum (Mo)	0.062	0.046%	7439-98-7
	Ni Plating	Nickel (Ni)	0.248	0.183%	7440-02-0
		Cobalt (Co)	0.124	0.092%	7440-48-4
	Gold Plating	Gold (Au)	0.062	0.046%	7440-57-5
Crystal	Crystal	Silicon Dioxide (SiO ₂)	5.500	4.061%	7631-86-9
	Electrode	Silver (Ag)	14.999	11.073%	7440-22-4
	Adhesive	Silver (Ag)	4.25000	3.138%	7440-22-4
		Silicone resin	0.750000	0.554%	
TOTAL			135.451	100.00%	