

# MATERIAL DECLARATION SHEET



Material Number	HCTSM110103HAL			
Product Line	High Creepage Transformers			
Compliance Date	2023-5-23			
RoHS Compliant	YES	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material/Substances	CAS RN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Core	Mn-Zn Ferrite	0.611	Ferric oxide	1309-37-1	72	14.1818	19.6970
				Trimanganese tetraoxide	1317-35-7	22	4.3333	
				Zinc oxide	1314-13-2	6	1.1818	
		Coating	0.0253	Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped	25036-25-3	65	0.5301	0.8156
				Titanium dioxide	13463-67-7	25	0.2039	
				Organic pigment	None	8	0.0652	
Cristobalite	14464-46-1			2	0.0163			
2	Housing	Diallyl Phthalate	1.38	Poly(diallyl isophthalate)	25035-78-3	25	11.1219	44.4874
				Aluminium hydroxide	21645-51-2	45	20.0193	
				Glass fiber	65997-17-3	30	13.3462	
3	Housing-Pin	Phosphor Bronze Alloys	0.0064	Copper	7440-50-8	93.45	0.1928	0.2063
				Tin	7440-31-5	6.25	0.0129	
				Phosphorus	7723-14-0	0.2	0.0004	
				Iron	7439-89-6	0.1	0.0002	
		Tin plating	0.0001	Tin	7440-31-5	100	0.0032	0.0032
Nickel plating	0.0005	Nickel	7440-02-0	100	0.0161	0.0161		
4	Wire	Yellow Insulated Wire-1	0.064	Copper	7440-50-8	44.39	0.9158	2.0632
				Polyurethane	9017-09-8	2.22	0.0458	

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				Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	52.83	1.0900	
				Yellow masterbatch	secret	0.56	0.0116	
		Green Insulated Wire	0.064	Copper	7440-50-8	44.39	0.9158	2.0632
				Polyurethane	2599683	2.22	0.0458	
				Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	52.83	1.0900	
				Green masterbatch	secret	0.56	0.0116	
		Yellow Insulated Wire-2	0.064	Copper	7440-50-8	36.38	0.7506	2.0632
				Polyurethane	9017-09-8	2.54	0.0524	
				Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	60.44	1.2470	
				Yellow masterbatch	secret	0.64	0.0132	
		Red Insulated Wire	0.064	Copper	7440-50-8	36.38	0.7506	2.0632
				Polyurethane	9017-09-8	2.54	0.0524	
				Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	60.44	1.2470	
				Red masterbatch	secret	0.64	0.0132	
5	Insulation Sheet	Aramid Insulating Paper	0.0187	1,3-Benzenedicarbonyl dichloride, polymer with 1,3-benzenediamine	25765-47-3	100	0.6028	0.6028
6	Silicone Rubber	Silicone Rubber	0.784	Silicone Rubber	63394-02-5	55	13.9007	25.2740
				Silicon dioxide	14808-60-7	44	11.1206	
				Carbon black	1333-86-4	1	0.2527	
7	Solder	Tin-silver-copper alloy	0.02	Tin	7440-31-5	96.5	0.6222	0.6447
				Silver	7440-22-4	3	0.0193	
				Copper	7440-50-8	0.5	0.0032	
		Total weight	3.102					

This Document was updated on: 2023-5-23

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.