8th October 2020

Material Composition for P271 Potentiometer

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (mg)	Special Classification
Stator	C2680R	5.902%	Cu	7440-50-8	935.95	
		2.777%	Zn	7440-66-6	440.45	
	Nickel Plating	0.019%	Ni	7440-02-0	3.00	
Fixed-board	Glass Fiber board	0.837%	Fiber Glass Wool	65997-17-3	132.66	
		0.760%	EPOXY RESIN	26265-08-7	120.60	
		0.304%	Cu	7440-50-8	48.24	
Stop Plate	SUS304	1.817%	Fe	7439-89-6	288.23	
		0.002%	C	7440-44-0	0.28	
		0.011%	Si	7440-21-3	1.69	
		0.214%	Ni	7440-02-0	33.93	
		0.031%	Mn	7439-96-5	4.94	
		0.001%	P	7723-14-0	0.12	
		0.000%	S	7704-34-9	-	
		0.459%	Cr	7440-47-3	72.80	
C Button	C2680R	0.537%	Cu	7440-50-8	85.14	
		0.253%	Zn	7440-66-6	40.06	
	Nickel Plating	0.006%	Ni	7440-02-0	1.00	
Case	SUS304	13.453%	Fe	7439-89-6	2,133.43	
		0.013%	C	7440-44-0	2.08	
		0.079%	Si	7440-21-3	12.50	
		1.584%	Ni	7440-02-0	251.13	
		0.231%	Mn	7439-96-5	36.60	
		0.006%	P	7723-14-0	0.89	
		0.000%	S	7704-34-9	-	
		3.398%	Cr	7440-47-3	538.86	
Base	Phenolic Laminate	7.616%	Pulp cellulose	65996-61-4	1,207.80	
		9.308%	Phenol formaldehyde resin	9003-35-4	1,476.20	
	C2680R	0.772%	Cu	7440-50-8	122.40	
		0.363%	Zn	7440-66-6	57.60	
	Carbon Plasm	0.109%	Methanol	67-56-1	17.25	
		0.508%	Carbom Black	1333-86-4	80.50	
		0.029%	Talc	14807-96-6	4.60	
		0.022%	Polymer with xylene 8 phend	29601-89-0	3.45	
		0.022%	Moncbutyi Ether	112-34-5	3.45	
		0.036%	Silver	7440-22-4	5.75	
	Silver Plasm	0.145%	Phenolic resin	9039-25-2	23.01	
		0.372%	Silver	7440-22-4	59.00	
		0.004%	Glass powder	65997-17-3	0.59	
		0.037%	Graphite	7782-42-5	5.90	
		0.037%	Molybdeum disulfide	1317-33-5	5.90	
		0.149%	Diethylene glycol monveihyl ether	111-90-0	23.60	
Conductor	C2680R	2.221%	Cu	7440-50-8	352.24	
		1.045%	Zn	7440-66-6	165.76	
	Sn Plating	0.013%	Sn	7440-31-5	2.00	
Slider	C7701R	0.675%	Cu	7440-50-8	107.07	
		0.322%	Zn	7440-66-6	51.06	
		0.221%	Nickel	7440-02-0	35.01	
		0.006%	Mn	7439-96-5	0.97	
		0.002%	Fe	7439-89-6	0.39	
Washer	SUS304	0.563%	Fe	7439-89-6	89.27	
		0.001%	C	7440-44-0	0.09	
		0.003%	Si	7440-21-3	0.52	
		0.066%	Ni	7440-02-0	10.51	
		0.010%	Mn	7439-96-5	1.53	
		0.000%	P	7723-14-0	0.04	
		0.000%	S	7704-34-9	-	
		0.142%	Cr	7440-47-3	22.55	
	Nickel Plating	0.013%	Ni	7440-02-0	2.00	
Nut	SWRCH	2.725%	Fe	7439-89-6	432.12	
		0.019%	C	7440-44-0	2.94	
		0.167%	P	7723-14-0	26.46	
		0.423%	Mn	7439-96-5	67.03	
		0.375%	S	7704-34-9	59.45	
	Nickel Plating	0.013%	Ni	7440-02-0	2.00	
Shaft	SUS303	0.013%	C	7440-44-0	2.05	
		0.451%	Mn	7439-96-5	71.48	
		0.067%	Si	7440-21-3	10.60	
		0.006%	P	7723-14-0	1.03	
		0.468%	Cu	7440-50-8	74.21	
		14.938%	Fe	7439-89-6	2,369.03	
		0.054%	S	7704-34-9	8.55	
		3.789%	Cr	7440-47-3	600.89	
		1.758%	Ni	7440-02-0	278.73	
		0.022%	Mo	7439-98-7	3.42	
Shaft Set	3604 easy-cut Copper	10.484%	Cu	7440-50-8	1,662.67	
		6.264%	Zn	7440-66-6	993.42	
		0.312%	Pb	7439-92-1	49.41	RoHS exemption 6 (c)
		0.060%	Fe	7439-89-6	9.50	
	Nickel Plating	0.032%	Ni	7440-02-0	5.00	
Adhesive	Adhesive	0.017%	Hydroxyl terminated siloxane	63148-62-9	2.74	
		0.004%	silica	7361-86-9	0.57	
		0.003%	alumina	1344-28-1	0.46	
		0.000%	carbon black	1333-86-4	0.04	
Grease	Base oil+Addition	0.009%	Polyisobutylene	9003-27-4	1.50	
		0.006%	PAO	68037-01-4	0.88	
		0.001%	Fumed Sitica	68611-44-9	0.13	

Total mass	15,858.9	mg