

Material Composition for 5710 STD Potentiometer

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (mg)	Special Classification			
Housing	Laminated Phenolic N	10.598%	Phenolic Resin	9039-25-2	8.385540				
			Cellulose	9004-34-6	5.590360				
	Marking Ink	0.000%	cobalt naphthenate	61789-51-3	0.000008				
			cobalt neodecanonate	27253-31-2	0.000008				
			Hexahydro-1, -3 isobenzofuran	85-42-7	0.000038				
			trade secret	n/a	0.000248	non-hazardous			
Clamp	Stainless Steel	9.211%	Fe	7439-89-6	8.415442				
			C	7440-44-0	0.013362				
			Cr (0)	7440-47-3	2.306715				
			Mn	7439-96-5	0.013362				
			Mo	7439-98-7	0.060735				
			P	7723-14-0	0.013362				
			S	7704-34-9	0.048588				
			Ni	7440-02-0	1.214700				
			Si	7440-21-3	0.060735				
			Screw	Stainless Steel	0.867%	Fe	7439-89-6	0.791870	
						C	7440-44-0	0.001257	
Cr (0)	7440-47-3	0.217056							
Mn	7439-96-5	0.001257							
Mo	7439-98-7	0.005715							
P	7723-14-0	0.001257							
S	7704-34-9	0.004572							
Epoxy	0.002%	Ni		7440-02-0	0.114300				
		Si		7440-21-3	0.005715				
		Epoxy Resin		25085-99-8	0.001413				
		Polyoxypropyleneamine		9046-10-0	0.000304				
		Nonylphenol		84852-15-3	0.000121				
		Ethyleneamine		140-31-8	0.000097				
		Phenol, dinonyl-		1323-65-5	0.000001				
Coil Resistor	NiCr alloy	1.966%	Phenol, 2-nonyl-, branched	91672-41-2	0.000001				
			Glycerol	56-81-5	0.000024				
			Siloxanes and Silicones, di-Me, r	67762-90-7	0.000040				
			Ni	7440-02-0	0.116702				
			Cr (0)	7440-47-3	0.027837				
			Al	7429-90-5	0.004283				
			Si	7440-21-3	0.000934				
			Mn	7439-96-5	0.003212				
			Cu	7440-50-8	0.002141				
			Cu core	7440-50-8	2.315836				
Insulation	0.001%	polyimide, aromatic	25038-81-7	0.122055					
		trade secret	n/a	0.001000	non-Hazardous				
Shaft	Stainless Steel	6.562%	Fe	7439-89-6	5.985560				
			C	7440-44-0	0.009520				
			Cr (0)	7440-47-3	1.643414				
			Mn	7439-96-5	0.009520				
			Mo	7439-98-7	0.043271				
			P	7723-14-0	0.009520				
			S	7704-34-9	0.034616				
			Ni	7440-02-0	0.865410				
			Si	7440-21-3	0.043271				
			Cu	7440-50-8	0.027790				
			Zn	7440-66-6	0.011910				
			Shim Washer	Brass 70-30	0.030%	Cu	7440-50-8	0.011340	
						Zn	7440-66-6	0.004860	
			Shim Washer	Brass 70-30	0.100%	Cu	7440-50-8	0.092610	
Zn	7440-66-6	0.039690							
Shim Washer	Brass 70-30	0.126%	Cu	7440-50-8	0.116760				
			Zn	7440-66-6	0.050040				
Shim Washer	Stainless Steel 301	0.054%	Fe	7439-89-6	0.051309				
			Cr (0)	7440-47-3	0.012002				
			Ni	7440-02-0	0.004942				
			Mn	7439-96-5	0.001412				
			Si	7440-21-3	0.000706				
			C	7440-44-0	0.000106				
			N	7727-37-9	0.000071				
			P	7723-14-0	0.000032				
			S	7704-34-9	0.000021				
			C	7440-44-0	0.003979				
			Fe	7439-89-6	0.630603				
Lockwasher	Spring Steel	0.491%	Mn	7439-96-5	0.003979				
			P	7723-14-0	0.000192				
Ni Plating	0.001%	S	7704-34-9	0.000192					
		Ni	7440-02-0	0.007957					
Nut	Brass	2.750%	Cu	7440-50-8	2.219213				
			Zn	7440-66-6	1.273651				
			Pb	7439-92-1	0.116330	RoHS exemption 6 (c)			
			Zn or Ni plating	Zn or Ni	40-66-6 or 7440-02-0	0.017897	Can be external nickel		
Rotor Hub	DIALL 52-20-30	3.718%	Diallyl Iso-Phthalate resin	25035-78-3	4.903600				
			Cu	7440-50-8	0.231350				
Slip Ring	Brass 70-30	0.251%	Zn	7440-66-6	0.099150				
			Cu	7440-50-8	2.677290				
Contact Arm	Brass 70-30	2.900%	Zn	7440-66-6	1.147410				
			Cu	7440-50-8	2.677290				
Contact	Paliney Alloy #7	0.014%	Pd	7440-05-3	0.008405				
			Ag	7440-22-4	0.005490				
			Cu	7440-50-8	0.002562				
			Au	7440-57-5	0.001830				
			Pt	7440-06-4	0.001830				
			Zn	7440-66-6	0.000183				
			Fe	7439-89-6	0.123673				
Spirol Pin	Stainless Steel	0.135%	C	7440-44-0	0.000189				
			Cr (0)	7440-47-3	0.033903				
			Mn	7439-96-5	0.000189				
			Mo	7439-98-7	0.000898				
			P	7723-14-0	0.000189				
			S	7704-34-9	0.000709				
			Ni	7440-02-0	0.017850				
			Si	7440-21-3	0.000898				
			Terminal	Brass	0.392%	Cu	7440-50-8	0.362340	
						Zn	7440-66-6	0.153298	
						Fe	7439-89-6	0.000206	
Pb	7439-92-1	0.000257				RoHS exemption 6 (c)			
Au	7440-57-5	0.001000							
Slider Spring	Palladium alloy	0.026%				Pd	7440-05-3	0.017000	
			Ag	7440-22-4	0.010200				
			Au	7440-57-5	0.003400				
			Pt	7440-06-4	0.003400				
Terminal	Brass	0.460%	Cu	7440-50-8	0.425316				
			Zn	7440-66-6	0.179941				
			Fe	7439-89-6	0.000241				
			Pb	7439-92-1	0.000302	RoHS exemption 6 (c)			
			Au	7440-57-5	0.001000				
			Silicone Gum SE-33	0.000%	vinylmethylsiloxane, dimethylsilo	68083-18-1	0.000600		
Epoxy	0.002%	N-(2-aminoethyl)-1-, 2-ethanedio	1111-40-03	0.001401					
		Phenol, 4,4' (1-Methylene)bis-	80-05-7	0.000600					
Lid Front	Aluminum 2024	37.328%	Al	7429-90-5	44.771047				
			Mg	7439-95-4	0.886068				
			Fe	7439-89-6	0.246130				
			Cu	7440-50-8	2.412074				
			Zn	7440-66-6	0.123065				
			Mn	7439-96-5	0.492260				
			Si	7440-21-3	0.246130				
			Cr	7440-47-3	0.049226				
			Bearing	Ollite Bronze	1.106%	Cu	7440-50-8	1.265075	
						Sn	7440-31-5	0.145830	
C	7440-44-0	0.025520							
Fe	7439-89-6	0.014583							
Other metal traces	n/a	0.007292							
Lid Rear	Aluminum 2024	20.867%				Al	7429-90-5	25.028076	
			Mg	7439-95-4	0.495333				
			Fe	7439-89-6	0.137593				
			Cu	7440-50-8	1.348407				
			Zn	7440-66-6	0.068796				
			Mn	7439-96-5	0.275185				
			Si	7440-21-3	0.137593				
			Cr	7440-47-3	0.027519				
			Spring Arm-Contact	Beryllium Copper C17	0.030%	Cu	7440-50-8	0.039559	
						Be	7440-41-7	0.000240	
						Al	7429-90-5	0.000281	
Co	7440-48-4	0.000008							
Si	7440-21-3	0.000012							
Total mass					131.875 mg				