

Material Composition for C STD

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification				
Housing	Fiberite FM-4004-5	30.040%	Polyphtalamide	24938-03-2	1.66E+01	non-hazardous				
			Fiberglass	65997-17-3	5.92E+00					
			Antimony Oxide	1309-64-4	1.18E+00					
	Marking Ink	0.0004%	cobalt naphthenate	61789-51-3	7.50E-06					
			cobalt neodecanonate	27253-31-2	7.50E-06					
			Hexahydro-1, -3 isobenzofurandione	85-42-7	3.75E-05					
Epoxy	0.003%	trade secret	n/a	2.48E-04						
		N-(2-aminoethyl)-1, 2-ethanediamine	1111-40-03	1.40E-03						
		Phenol, 4,4' (1-Methylidene)bis-	80-05-7	6.00E-04						
Bushing	Brass C36000	14.612%	Cu	7440-50-8	7.08E+00	RoHS exemption 6 (c) non-hazardous				
			Zn	7440-66-6	4.07E+00					
			Fe	7439-89-6	3.45E-02					
			Pb	7439-92-1	3.22E-01					
			alkyl/fluoroalkyl substituted arylamine diisocyanate reaction	n/a	5.00E-05					
	Lubricant	0.0001%								
Coil Resistor	NiCr alloy	0.867%	Ni	7440-02-0	5.14E-01					
			Cr (0)	7440-47-3	1.23E-01					
			Al	7429-90-5	1.89E-02					
			Si	7440-21-3	4.11E-03					
			Mn	7439-96-5	1.41E-02					
			Cu	7440-50-8	9.43E-03					
			Cu	7440-50-8	1.02E+01					
			polyimide, aromatic	25038-81-7	5.37E-01					
			trade secret	n/a	5.00E-05					
			Cu core	12.944%						
insulation	0.682%									
lubricant	0.000%				non-Hazardous					
Rotor Block	Polysulfone P-1700	7.367%	Polysulfone	25154-01-2	5.80E+00					
Shim Washer	Brass 70-30	0.050%	Cu	7440-50-8	2.74E-02					
			Zn	7440-66-6	1.18E-02					
Shaft	Stainless Steel	12.567%	Fe	7439-89-6	6.86E+00					
			C	7440-44-0	1.05E-02					
			Cr (0)	7440-47-3	1.88E+00					
			Mn	7439-96-5	1.05E-02					
			Mo	7439-98-7	4.98E-02					
			P	7723-14-0	1.05E-02					
			S	7704-34-9	3.93E-02					
			Ni	7440-02-0	9.90E-01					
			Si	7440-21-3	4.98E-02					
			trade secret	n/a	5.00E-05					
			Lubricant	0.0001%						
			Truarc	Carbon Steel	0.112%		Fe	7439-89-6	8.72E-02	
							C	7440-44-0	5.30E-04	
	Mn	7439-96-5					6.18E-04			
P	7723-14-0	1.77E-05								
S	7704-34-9	2.64E-05								
Si	7440-21-3	2.21E-04								
Lockwasher	Spring Steel	0.375%	C	0.002	1.84E-03					
			Fe	0.317	2.92E-01					
			Mn	0.002	1.84E-03					
			P	0.0000963	8.87E-05					
			S	0.0000963	8.87E-05					
			Ni	7440-02-0	3.68E-03		Can be external nickel			
Nut	Brass	1.598%	Cu	7440-50-8	7.74E-01					
			Zn	7440-66-6	4.44E-01					
			Pb	7439-92-1	4.06E-02					
			Zn or Ni	7440-66-6 or 7440-02-6	2.24E-03		Can be external nickel			
Slider Block	Polysulfone P-1700	0.577%	Polysulfone	25154-01-2	4.54E-01	non-hazardous				
	Lubricant	0.0001%	alkyl/fluoroalkyl substituted arylamine	n/a	5.00E-05					
Spring Contact	Beryllium Copper Alloy 25	0.243%	Cu	7440-50-8	1.87E-01					
			Be	7440-41-7	3.45E-03					
			Co		7.67E-04					
Rivet	Brass	0.086%	Cu	7440-50-8	4.77E-02					
			Zn	7440-66-6	2.03E-02					
			Fe	7439-89-6	2.72E-05					
			Pb	7439-92-1	3.40E-05					
Contact	Palinoy Alloy #8	0.064%	Pd	7440-05-3	2.21E-02					
			Ag	7440-22-4	1.91E-02					
			Cu	7440-50-8	8.52E-03					
			Ni	7440-02-0	5.01E-04					
Pigtail	Wire	0.171%	Cu	7440-50-8	1.23E-01					
	Ag plating		Ag	7440-22-4	1.24E-02					
	insulation	0.006%	Silicone Rubber	63394-02-5	5.00E-03					
Contact Spring	BeCu CA172	0.038%	Cu	7440-50-8	2.94E-02					
			Be	7440-41-7	5.70E-04					
			Trace Metals	n/a	3.00E-05					
Contact Button	Cartridge Brass C26000	0.022%	Cu	7440-50-8	1.23E-02	RoHS exemption 6 (c)				
			Zn	7440-66-6	5.16E-03					
			Pb	7439-92-1	1.23E-05					
			Fe	7439-89-6	8.75E-06					
			Other metal traces	n/a	2.63E-05					
Terminal	Brass 65-35	1.759%	Cu	7440-50-8	9.49E-01	RoHS exemption 6 (c)				
			Zn	7440-66-6	4.34E-01					
			Fe	7439-89-6	9.70E-04					
			Pb	7439-92-1	1.25E-03					
	Silicone Gum SE-33	0.001%	0.003%	vinylmethylsiloxane, dimethylsiloxane	68083-18-1		6.00E-04			
				Mica	12001-26-2		9.59E-04			
				Epichlorohydrin-4,4'-isopropylidene d	25068-38-6		8.46E-04			
				Phenyl glycidyl ether	122-60-1		5.64E-05			
				Quartz (SiO2)	14808-60-7		9.40E-06			
				Carbon black	1333-86-4		9.40E-06			
				Tetraethylene pentamine	112-57-2		1.14E-04			
				Triethylenetetramine	112-24-3		6.00E-06			
Ribbon	Huntington Alloy 200	0.001%	Ni	7440-02-0	8.96E-04					
			Other metal traces	n/a	4.50E-06					
Eyelet	Brass	0.079%	Cu	7440-50-8	4.39E-02	RoHS exemption 6 (c)				
			Zn	7440-66-6	1.87E-02					
			Fe	7439-89-6	2.50E-05					
			Pb	7439-92-1	3.13E-05					
Lid Rear	Fiberite FM-4004-5	13.849%	Polyphtalamide	24938-03-2	7.64E+00	non-hazardous				
			Fiberglass	65997-17-3	2.73E+00					
			Antimony Oxide	1309-64-4	5.45E-01					
	Lubricant	0.0001%	alkyl/fluoroalkyl substituted arylamine	n/a	5.00E-05					
			acetone	67-64-1	5.60E-05					
	Glyptal 2142	0.0001%	toluene	108-88-3	3.50E-06					
			nitrocellulose	9004-70-0	3.50E-06					
			trade secret	n/a	7.00E-06					
Slip Ring	Brass 260	1.757%	Cu	7440-50-8	9.69E-01	RoHS exemption 6 (c)				
			Zn	7440-66-6	4.14E-01					
			Fe	7439-89-6	6.92E-04					
			Pb	7439-92-1	9.69E-04					
			Au	7440-57-5	1.00E-03					
Drive Screw	Carbon Steel	0.111%	Fe	7439-89-6	8.61E-02					
			C	7440-44-0	5.23E-04					
			Mn	7439-96-5	6.11E-04					
			P	7723-14-0	1.75E-05					
			S	7704-34-9	2.61E-05					
			Si	7440-21-3	2.18E-04					
Total Mass					78.77	grams				