

Material Composition for A STD

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification	
Housing	Fiberite 40045	31.44%	Polyphtalamide	24938-03-2	2.74E+01		
			Fiberglass	65997-17-3	9.84E+00		
			Antimony Oxide	1309-64-4	1.89E+00		
	Marking Ink	cobalt naphthenate	61789-51-3	7.50E-06			
		cobalt neodecanonate	27253-31-2	7.50E-06			
		Hexahydro-1, -3 isobenzofurandion	85-42-7	3.75E-05			
Epoxy	0.0016%	trade secret	n/a	2.48E-04	non-hazardous		
		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	10.05%	Cu	7440-50-8	7.58E+00		
			Zn	7440-66-6	4.57E+00		
			Fe	7439-89-6	3.45E-02		
			Pb	7439-92-1	3.22E-01		
	Lubricant	alkyl/fluoroalkyl substituted arylamine	n/a	5.00E-05	RoHS exemption 6 (c) non-hazardous		
Coil Resistor	NiCr alloy	1.51%	Ni	7440-02-0	1.41E+00		
			Cr (0)	7440-47-3	3.37E-01		
			Al	7429-90-5	5.18E-02		
			Si	7440-21-3	1.13E-02		
			Mn	7439-96-5	3.88E-02		
			Cu	7440-50-8	2.59E-02		
	Cu core	23.30%	Cu	7440-50-8	2.90E+01		
			insulation	polyimide, aromatic	25038-81-7		1.49E+00
	lubricant	0.00004%	trade secret	n/a	5.00E-05		non-Hazardous
Rotor Block	Polysulfone #1710	6.85%	Polysulfone	25154-01-2	6.53E+00		
Shim Washer	Brass 70-30	0.03%	Cu	7440-50-8	2.74E-02		
			Zn	7440-66-6	1.18E-02		
Shaft	Stainless Steel	12.18%	Fe	7439-89-6	1.07E+01		
			C	7440-44-0	1.55E-02		
			Cr (0)	7440-47-3	2.78E+00		
			Mn	7439-96-5	1.55E-02		
			Mo	7439-98-7	7.38E-02		
			P	7723-14-0	1.55E-02		
			S	7704-34-9	5.83E-02		
			Ni	7440-02-0	1.47E+00		
			Si	7440-21-3	7.38E-02		
				trade secret	n/a		5.00E-05
			Lubricant		0.000%		
	Truarc	Carbon Steel	0.07%	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	0.24%	C	7440-44-0	1.84E-03		
			Fe	7439-89-6	2.92E-01		
			Mn	7439-96-5	1.84E-03		
	Ni Plating	0.00%	P	7723-14-0	8.87E-05		
			S	7704-34-9	8.87E-05		
			Ni	7440-02-0	3.68E-03		Can be external nickel
Nut	Brass	1.01%	Cu	7440-50-8	7.74E-01		
			Zn	7440-66-6	4.44E-01		
	Zn or Ni plating	0.01%	Pb	7439-92-1	4.06E-02		RoHS exemption 6 (c)
			Zn or Ni	7440-66-6 or 7440-02-6,24E-03	Can be external nickel		
Slider Block	Polysulfone P-1700	0.36%	Polysulfone	25154-01-2	4.54E-01		
	Lubricant	0.00004%	alkyl/fluoroalkyl substituted arylamine	n/a	5.00E-05		non-hazardous
Spring Contact	Beryllium Copper Alloy 25	0.15%	Cu	7440-50-8	1.87E-01		
			Be	7440-41-7	3.45E-03		
			Co	7440-21-3	7.67E-04		
Rivet	Brass	0.05%	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	Paliney Alloy #8	0.04%	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	0.12%	Cu	7440-50-8	1.44E-01		
	Ag plating	0.01%	Ag	7440-22-4	1.46E-02		
	insulation	0.00%	Silicone Rubber	63394-02-5	5.00E-03		
Contact Spring	BeCu CA172	0.02%	Cu	7440-50-8	2.94E-02		
			Be	7440-41-7	5.70E-04		
			Other metal traces	n/a	3.00E-05		
Contact Button	Cartridge Brass C26000	0.01%	Cu	7440-50-8	1.23E-02		
			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	1.11%	Cu	7440-50-8	9.49E-01		
			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	0.00%	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		
	Epoxy	0.00%	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	0.05%	Cu	7440-50-8	4.39E-02		
			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	9.00%	Polyphtalamide	24938-03-2	7.94E+00		
			Fiberglass	65997-17-3	2.73E+00		
			Antimony Oxide	1309-64-4	5.45E-01		
	Lubricant	0.00004%	alkyl/fluoroalkyl substituted arylamine	n/a	5.00E-05		non-hazardous
			acetone	67-64-1	5.60E-05		
			toluene	108-88-3	3.50E-06		
	Glyptal 2142	0.00006%	nitrocellulose	9004-70-0	3.50E-06		
			trade secret	n/a	7.00E-06		non-hazardous
Slip Ring	Brass 260	1.11%	Cu	7440-50-8	9.69E-01		
			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		
			Au plating	0.001%			
	Drive Screw	Carbon Steel	0.07%	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 124.538 grams