

Material Composition for 5610

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification			
Housing	Laminated Phenolic NEM/ 12.294%		Phenolic Resin	9039-25-2	5.9520				
			Cellulose	9004-34-6	3.9010				
			Marking Ink	cobalt naphthenate	61789-51-3	0.0000			
				cobalt neodecanonate	27253-31-2	0.0000			
				Hexahydro-1, -3 isobenzofurandion	85-42-7	0.0000			
				trade secret	n/a	0.0002	non-hazardous		
Clamp	Stainless Steel	4.975%	Fe	7439-89-6	2.7340				
			C	7440-44-0	0.0040				
			Cr (0)	7440-47-3	0.7450				
			Mn	7439-96-5	0.0040				
			Mo	7439-98-7	0.0200				
			P	7723-14-0	0.0040				
			S	7704-34-9	0.0160				
			Ni	7440-02-0	0.3950				
			Si	7440-21-3	0.0200				
			Screw	Stainless Steel	0.718%	Fe	7439-89-6	0.3940	
						C	7440-44-0	0.0006	
Cr (0)	7440-47-3	0.1080							
Mn	7439-96-5	0.0006							
Mo	7439-98-7	0.0030							
P	7723-14-0	0.0006							
S	7704-34-9	0.0020							
Ni	7440-02-0	0.0570							
Si	7440-21-3	0.0030							
Epoxy		0.003%				Epoxy Resin	25085-89-8	0.0014	
				Polyoxypropyleneamine	9046-10-0	0.0003			
				Nonylphenol	84852-15-3	0.0001			
				Ethyleneamine	140-31-8	0.0001			
				Phenol, dinonyl-	1323-65-5	0.0000			
				Phenol, 2-nonyl-, branched	91672-41-2	0.0000			
				Glycerol	56-81-5	0.0000			
				Siloxanes and Silicones, di-Me, react	67762-90-7	0.0000			
Coil Resistor	NiCr alloy	3.265%	Ni	7440-02-0	0.1170				
			Cr (0)	7440-47-3	0.0280				
			Al	7429-90-5	0.0040				
			Si	7440-21-3	0.0009				
			Mn	7439-96-5	0.0030				
			Cu	7440-50-8	0.0020				
			Cu	7440-50-8	2.3160				
						polyimide, aromatic	25038-81-7	0.1220	
						trade secret	n/a	0.0010	non-Hazardous
			Shaft	Stainless Steel	13.070%	Fe	7439-89-6	7.1540	
						C	7440-44-0	0.0110	
						Cr (0)	7440-47-3	1.9690	
						Mn	7439-96-5	0.0110	
						Mo	7439-98-7	0.0520	
P	7723-14-0	0.0110							
S	7704-34-9	0.0410							
Ni	7440-02-0	1.0370							
Si	7440-21-3	0.0520							
Shim Washer	Brass 70-30	0.049%				Cu	7440-50-8	0.0270	
						Zn	7440-66-6	0.0120	
Shim Washer	Brass 70-30	0.020%	Cu	7440-50-8	0.0110				
			Zn	7440-66-6	0.0050				
Shim Washer	Stainless Steel 301	0.090%	Fe	7439-89-6	0.0520				
			Cr (0)	7440-47-3	0.0120				
			Ni	7440-02-0	0.0050				
			Mn	7439-96-5	0.0014				
			Si	7440-21-3	0.0007				
			C	7440-44-0	0.0001				
			N	7727-37-9	0.0001				
			P	7723-14-0	0.0000				
			S	7704-34-9	0.0000				
			Lockwasher	Spring Steel	0.373%	C	7440-44-0	0.0020	
						Fe	7439-89-6	0.2890	
Mn	7439-96-5	0.0020							
P	7723-14-0	0.0001							
S	7704-34-9	0.0001							
Ni	7440-02-0	0.0040							
Nut	Brass	1.565%	Cu	7440-50-8	0.7740				
			Zn	7440-66-6	0.4440				
			Pb	7439-92-1	0.0410	RoHS exemption 6 (c)			
			Zn or Ni	7440-66-6 or 7440-02 0.0060	0.0060	Can be external nickel			
Rotor Hub	DIALL 52-20-30	6.181%	Diallyl Iso-Phthalate resin	25035-75-3	4.9040				
			Cu	7440-50-8	0.2340				
Slip Ring	Brass 70-30	0.422%	Zn	7440-66-6	0.1000				
			Cu	7440-50-8	2.1140				
Contact Arm	Brass 70-30	3.808%	Cu	7440-50-8	2.1140				
			Zn	7440-66-6	0.9080				
Contact	Palliney Alloy #7	0.023%	Pd	0305/7440	0.0060				
			Ag	7440-22-4	0.0050				
			Cu	7440-50-8	0.0030				
			Au	7440-57-5	0.0018				
			Pt	0406/7440	0.0018				
			Zn	7440-66-6	0.0002				
Sproil Pin	Stainless Steel	0.226%	Fe	7439-89-6	0.1240				
			C	7440-44-0	0.0002				
			Cr (0)	7440-47-3	0.0340				
			Mn	7439-96-5	0.0002				
			Mo	7439-98-7	0.0009				
			P	7723-14-0	0.0002				
			S	7704-34-9	0.0007				
			Ni	7440-02-0	0.0180				
			Si	7440-21-3	0.0009				
			Terminal	Brass	0.33%	Cu	7440-50-8	0.1820	
Zn	7440-66-6	0.0770							
Fe	7439-89-6	0.0001							
Pb	7439-92-1	0.0001				RoHS exemption 6 (c)			
Au	7440-57-5	0.0010							
Pd	0305/7440	0.0010							
Ag	7440-22-4	0.0100							
Au	7440-57-5	0.0030							
Pt	0406/7440	0.0030							
Terminal	Brass	0.38%				Cu	7440-50-8	0.2110	
			Zn	7440-66-6	0.0890				
			Fe	7439-89-6	0.0001				
			Pb	7439-92-1	0.0002	RoHS exemption 6 (c)			
			Au	7440-57-5	0.0010				
Lid Front	Aluminum 6061	16.32%	Al	7429-90-5	12.5790				
			Mg	7439-95-4	0.1290				
			Fe	7439-89-6	0.0910				
			Cu	7440-50-8	0.0390				
			Zn	7440-66-6	0.0330				
			Mn	7439-96-5	0.0190				
			Ti	7440-32-6	0.0190				
			Si	7440-21-3	0.0080				
			Cr	7440-47-3	0.0060				
						Other metal traces	n/a	0.0260	
			Bearing	Oilite Bronze	1.84%	Cu	7440-50-8	1.2650	
						Sn	7440-31-5	0.1460	
						C	7440-44-0	0.0260	
Fe	7439-89-6	0.0150							
						Other metal traces	n/a	0.0070	
Lid Rear	Aluminum 6061	27.27%	Al	7429-90-5	21.0140				
			Mg	7439-95-4	0.2160				
			Fe	7439-89-6	0.1510				
			Cu	7440-50-8	0.0650				
			Zn	7440-66-6	0.0540				
			Mn	7439-96-5	0.0320				
			Ti	7440-32-6	0.0320				
			Si	7440-21-3	0.0130				
			Cr	7440-47-3	0.0110				
						Other metal traces	n/a	0.0430	
Bearing	Oilite Bronze	6.70%	Cu	7440-50-8	4.6120				
			Sn	7440-31-5	0.5320				
			C	7440-44-0	0.0930				
			Fe	7439-89-6	0.0530				
						Other metal traces	n/a	0.0270	
Total Mass					79.328	grams			