

Material Composition for P230-020A

Sub-component	Material	% of Total	Substance Name	CAS #	Substance Mass (grams)	Special Classification				
Shaft	Zinc alloy	27.031%	Al	7429-90-5	0.1328	<0.1% within article				
			Cu	7440-50-8	0.0166					
			Mg	7439-95-4	0.0017					
			Fe	7439-89-6	3.32E-04					
			Pb	7439-92-1	3.32E-05					
			Cd	7440-43-9	3.32E-06					
			Sn	7440-31-5	3.32E-06					
			Zn	7440-66-6	3.1695					
Element	Phenolic laminate	7.482%	Cellulose	65996-61-4	0.4136	Bisphenol-A resin Barium compound				
			Phenolic resin	9003-35-4	0.5055					
	Conductive plastic	0.080%	Carbon black	1333-86-4	0.0098					
			Talc	14807-96-6	5.60E-04					
			Polymer	29601-89-0	4.20E-04					
			Monobutyl ether	112-34-5	4.20E-04					
	Silver conductor	0.024%	Silver	7440-22-4	7.00E-04					
			Phenolic resin	9039-25-2	9.00E-04					
			Silver	7440-22-4	0.0030					
			Glass powder	65997-17-3	3.00E-05					
	White oil	0.000%	Graphite	7782-42-5	3.00E-04					
			Molybdeum disulfide	1317-33-5	3.00E-04					
			Epoxy Resin	25085-99-8	5.00E-04					
			Barium sulfate talc	7727-43-7	1.50E-04					
			Titanium sulfate	13463-67-7	3.00E-04					
	Stop plate	POM	4.469%	Diethylene glycol monoethyl	112-15-2		5.00E-05			
Acetal polymer				unknown	0.5380					
Terminal	Steel	3.447%	Stabilizer	unknown	0.0110					
			C	7440-44-0	8.51E-04					
			Mn	7439-96-5	8.51E-04					
			P	7723-14-0	1.70E-04					
			S	7704-34-9	1.70E-04					
			Si	7440-21-3	0.0013					
			Al	7429-90-5	1.87E-04					
			Fe	7439-89-6	0.4222					
Slider	Phosphor bronze	1.456%	Sn	7440-31-5	3.00E-04					
			Cu	7440-50-8	0.1645					
	Silver Plating	0.000%	Ag	506-64-9	5.99E-04	RoHS exemption 6(c)				
			P	7723-14-0	8.97E-05					
			Fe	7439-89-6	7.18E-05					
			Pb	7439-92-1	1.79E-05					
			Zn	7440-66-6	3.59E-04					
			Sn	7440-31-5	0.0144					
			Cu	7440-50-8	0.1645					
			Fe	7439-89-6	7.18E-05					
Stop plate	Steel	10.956%	C	7440-44-0	0.0027					
			Mn	7439-96-5	0.0027					
			P	7723-14-0	5.39E-04					
			S	7704-34-9	5.39E-04					
			Si	7440-21-3	0.004					
			Al	7429-90-5	5.93E-04					
			Fe	7439-89-6	1.3365					
			Sn	7440-31-5	0.0024					
			Case	Steel	23.594%		C	7440-44-0	0.0058	
							Mn	7439-96-5	0.0058	
P	7723-14-0	0.0012								
S	7704-34-9	0.0012								
Si	7440-21-3	0.0087								
Al	7429-90-5	0.0013								
Fe	7439-89-6	2.8744								
Sn	7440-31-5	0.0017								
Ball	Steel	0.136%				Cu	7440-44-0	4.76E-05		
						Ni	7440-02-0	0.0016		
			Mn	7439-96-5	3.15E-04					
			Fe	7439-89-6	0.012					
			Cr	7440-47-3	0.0031					
			Mo	7439-98-7	1.36E-05					
Spring	Piano wire	0.046%	Si	7440-21-3	3.97E-05					
			Mn	7439-96-5	7.69E-05					
			P	7723-14-0	5.15E-04					
			S	7704-34-9	1.86E-06					
			Fe	7439-89-6	0.0056					
Shaft set	Zinc alloy	20.414%	Al	7429-90-5	0.1003	10 ppm, RoHS allowed				
			Cu	7440-50-8	0.0125					
			Mg	7439-95-4	0.0013					
			Fe	7439-89-6	2.51E-04					
			Pb	7439-92-1	2.51E-05					
			Cd	7440-43-9	2.51E-06					
			Sn	7440-31-5	2.51E-06					
			Zn	7440-66-6	2.3936					
			Plate	Steel	0.271%		C	7440-44-0	2.03E-05	
							Si	7440-21-3	1.62E-04	
Mn	7439-96-5	3.41E-04								
P	7723-14-0	1.01E-05								
S	7704-34-9	3.38E-06								
Cr	7440-47-3	0.0056								
Ni	7440-02-0	0.0025								
Fe	7439-89-6	0.0252								
Slide lever	Brass	0.512%				Cu	7440-50-8	0.0373	RoHS exemption 6(c)	
						Pb	7439-92-1	0.0020		
			Fe	7439-89-6	1.01E-04					
			Cd	7440-43-9	1.45E-06					
			Zn	7440-66-6	0.0236					
Shaft oil	PAO lubricant	0.024%	Polyisobutylene	9003-27-4	0.0018					
			PAO	68037-01-4	0.0011					
			Fumed silica	68611-44-9	1.50E-04					
Axes oil	PAO lubricant	0.024%	Polyisobutylene	9003-27-4	0.0018					
			PAO	68037-01-4	0.0011					
			Fumed silica	68611-44-9	1.50E-04					
Total mass					12.2843	grams				