

Material Composition for EN11-VNM1BF15

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification				
Shaft	Al alloy	29.965%	Si	7440-21-3	0.0044	RoHS Exemption 6(h)				
			Fe	7439-89-6	0.0077					
			Cu	7440-50-8	0.0552					
			Mn	7439-96-5	5.52E-04					
			Mg	7439-95-4	0.0055					
			Pb	7439-92-1	0.0022					
			Bi	7440-69-9	0.0022					
Cover	PBT blend	1.661%	PBT polymer	30965-26-5	0.0214	Halogenated epoxy, contains BPA Antimony fire				
			Brominated epoxy resin	68928-70-1	0.0153					
			Antimony oxide	1309-64-4	0.0061					
			Glass fiber	65997-17-3	0.0183					
Ring button	Steel	3.349%	C	7440-44-0	0.0010					
			Si	7440-21-3	2.48E-04					
			Mn	7439-96-5	5.33E-04					
			P	7723-14-0	1.20E-05					
			S	7704-34-9	1.20E-05					
			Cu	7440-50-8	2.50E-05					
			Fe	7439-89-6	0.1222					
			Frame	SPTE	25.640%		C	231-153-3	0.0019	
							Mn	231-105-1	0.0019	
							P	231-768-7	3.78E-04	
S	231-722-6	3.78E-04								
Si	231-130-8	0.0028								
Al	231-072-3	4.16E-04								
Fe	231-096-4	0.9367								
Calcium sulfonate	61789-86-4	4.80E-04								
Octadecyl 3,5-Di(tert-	2082-79-3	2.00E-05								
Shaft set	Zn alloy	33.115%				Al	7429-90-5	0.0488	RoHS Exemption 6(b)	
			Cu	7440-50-8	0.0061					
			Mg	7439-95-4	6.10E-04					
			Fe	7439-89-6	1.22E-04					
			Pb	7439-92-1	1.20E-05					
			Cd	7440-43-9	1.00E-06					
			Sn	7440-31-5	1.00E-06					
			Zn	7440-66-6	1.1634					
			Conductor base	POM	1.038%	Acetal polymer	9002-81-7	0.0382		
						Stabilizer	70624-18-9	7.79E-04		
Click	Steel	0.245%	C	7440-44-0	7.00E-06					
			Si	7440-21-3	5.00E-06					
			Mn	7439-96-5	1.14E-04					
			P	7723-14-0	3.00E-06					
			S	7704-34-9	trace					
			Cr	7440-47-3	0.0018					
			Ni	7440-02-0	8.31E-04					
			Fe	7439-89-6	0.0072					
			Spacer plate	Steel	0.245%		C	7440-44-0	7.00E-06	
Si	7440-21-3	5.00E-06								
Mn	7439-96-5	1.14E-04								
P	7723-14-0	3.00E-06								
S	7704-34-9	trace								
Cr	7440-47-3	0.0018								
Ni	7440-02-0	8.31E-04								
Fe	7439-89-6	0.0072								
Conductor	Phosphor bronze	1.275%				Cu	7440-50-8	0.0431	RoHS exemption 6(c)	
			Sn	7440-31-5	0.0038					
			Zn	7440-66-6	9.40E-05					
			Pb	7439-92-1	5.00E-06					
			Fe	7439-89-6	1.90E-05					
			P	7723-14-0	2.40E-05					
Slider base	PBT blend	2.229%	PBT polymer	30965-26-5	0.0287	Halogenated epoxy, contains BPA Antimony				
			Brominated epoxy resin	68928-70-1	0.0205					
			Antimony oxide	1309-64-4	0.0082					
Slider	Phosphor bronze	1.163%	Glass fiber	65997-17-3	0.0246	RoHS exemption 6(c)				
			Cu	7440-50-8	0.0394					
			Sn	7440-31-5	0.0034					
			Zn	7440-66-6	8.60E-05					
			Pb	7439-92-1	4.00E-06					
			Fe	7439-89-6	1.70E-05					
			P	7723-14-0	2.20E-05					
			Ag	506-64-9	2.00E-03					
			Lubricating oil	PAO lubricant	0.043%		Polyisobutylene	9003-27-4	3.60E-04	
							PAO	68037-01-4	0.0016	
Shaft oil	PAO	0.033%	Fumed silica	68611-44-9	4.00E-05					
			Polyisobutylene	9003-27-4	0.0012					
			PAO	68037-01-4	7.00E-04					
					Fumed silica	68611-44-9	1.00E-04			
Total mass					3,6910	grams				