

MATERIAL DECLARATION SHEET

BOURNS®

Material number	3590P-4-XXXL			
Product Line	Sensors & Controls			
Compliance Date	Jan 02, 2006			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Hex Nut	Brass C260	1.2500	Copper	7440-50-8	70	4.281	6.12
				Zinc	7440-66-6	30	1.8348	
		Plating	0.0900	Nickel	7440-02-0	100	0.4404	0.4404
2	Lock Washer	Carbon Steel C1050	0.17	Carbon	7440-44-0	0.5	0.0042	0.83
				Iron	7439-89-6	98.7	0.8210	
				Manganese	7439-96-5	0.75	0.0062	
				Phosphorus	7723-14-0	0.02	0.0002	
				Sulphur	7704-34-9	0.03	0.0002	
		Plating	0.0001	Nickel	7440-02-0	100	0.0005	0.0005
3	Lid	Resin	1.13	PBT	26062-94-2	53.7	2.97	5.53
				Glass Fiber	65997-17-3	30	1.66	
				Brominated Epoxy Resin	68928-70-1	10.5	0.58	
				Antimony Trioxide	1309-64-4	3	0.17	
				Pigment Blue 15	147-14-8	0.8	0.04	
				Further Additives, not to Declare	N/A	2	0.11	
4	Bushing	Zamak Alloy #5	2.82	Aluminium (metal)	7429-90-5	4.0	0.55	13.80
				Magnesium (metal)	7439-95-4	0.055	0.01	
				Copper	7440-50-8	0.9	0.12	

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				Iron	7439-89-6	0.04	0.01	
				Lead	7439-92-1	0.002	0.0003	
				Cadmium	7440-43-9	0.002	0.0003	
				Tin	7440-31-5	0.001	0.0001	
				Zinc	7440-66-6	95.00	13.11	
5	Housing	Resin	3.1	PBT	26062-94-2	53.7	8.15	15.17
				Glass Fiber	65997-17-3	30	4.55	
				Brominated Epoxy Resin	68928-70-1	10.5	1.59	
				Antimony Trioxide	1309-64-4	3	0.46	
				Pigment Blue 15	147-14-8	0.8	0.12	
				Further Additives, not to Declare	N/A	2	0.30	
6	Mandrel Wire	Annealed Copper Wire	1.22	Copper	7440-50-8	100	5.97	5.97
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0002	0.0002
7	Resist Wire	Nickel/Chromium Alloy	0.22	Nickel	7440-02-0	74	0.80	1.08
				Copper	7440-50-8	1	0.0108	
				Chromium	7440-47-3	21	0.22605	
				Aluminum	7429-90-5	1	0.01076	
				Silicon	7440-21-3	1	0.01076	
				Cobalt	7440-48-4	1	0.01076	
				Manganese	7439-96-5	1	0.01076	
8	Varnish	Hi-Thermo	0.052	Alkyd Resin	63148-69-6	99.5	0.25315	0.25
				Misc, Not to Declare	N/A	0.5	0.001	
9	T.R. Terminal x2	Copper CDA 194	0.121	Copper	7440-50-8	97.5	0.58	0.59
				Iron	7439-89-6	2.3	0.0136	
				Zinc (metal)	7440-66-6	0.1	0.0006	
				Lead	7439-92-1	0.01	0.0001	
				Further additives	N/A	0.09	0.0005	
		Silver Alloy A56T	0.07	Silver	7440-22-4	56	0.1918	0.34
				Copper	7440-50-8	22	0.0753	

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				Zinc	7440-66-6	17	0.0582	
				Tin	7440-31-5	5	0.0171	
		Plating	0.004	Tin	7440-31-5	100	0.0196	0.02
10	Shaft	Brass C360	6.86	Copper	7440-50-8	61.5	20.6422	33.56
				Iron	7439-89-6	0.2	0.06713	
				Lead	7439-92-1	3.0	1.0069	
				Zinc	7440-66-6	35	11.7476	
				Misc, not to Declare	N/A	0.3	0.1007	
		Plating	0.001	Nickel	7440-02-0	100	0.0049	0.005
11	Rotor/Shaft Molded	Resin	1.01	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	3.26	4.94
				Glass Fiber	65997-17-3	32	1.58	
				Molybdenum Disulfide	1317-33-5	2	0.099	
12	Slider Molded	Resin	0.142	Polyamide 66	32131-17-2	53	0.37	0.69
				Glass Fibers	65997-17-3	32	0.22	
				Tetrafluoroethylene Polymer	9002-84-0	13	0.09	
				Dimethylsilicone	63148-62-9	2	0.01	
13	Contact Spring	Paliney #6	0.008	Palladium	7440-05-3	44	0.02	0.04
				Silver	7440-22-4	38	0.01	
				Copper	7440-50-8	16	0.006	
				Platinum	7440-06-4	1	0.0004	
				Nickel	7440-02-0	1	0.0004	
14	Collector Bar	Beryllium Copper Alloy CA-172 alloy 25	0.031	Beryllium	7440-41-7	1.90	0.003	0.15
				Nickel	7440-02-0	0.30	0.0005	
				Cobalt	7440-48-4	0.30	0.0005	
				Iron	7439-89-6	0.30	0.0005	
				Aluminum	7429-90-5	0.10	0.0002	
				Silicon	7440-21-3	0.10	0.0002	

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				Copper	7440-50-8	96.70	0.1467	
				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	N/A	0.25	0.0004	
		Under Plating	0.001	Nickel	7440-02-0	100	0.005	
		Plating	0.001	Gold	7440-57-5	100	0.005	
15	Terminal Wiper	Phosphor Bronze CDA 510	0.218	Copper	7440-50-8	94.6	1.009	1.07
				Iron	7439-89-6	0.06	0.001	
				Phosphorus	7723-14-0	0.2	0.002	
				Lead	7439-92-1	0.025	0.0003	
				Tin	7440-31-5	5.0	0.053	
				Zinc (Metal)	7440-66-6	0.1	0.001	
				Misc., Not to Declare	N/A	0.025	0.0003	
		Plating	0.002	Gold	7440-57-5	100.00	0.010	0.01
16	Cover	Resin	1.365	Nickel	7440-02-0	100.00	0.010	0.01
				PBT	26062-94-2	53.7	3.59	6.68
				Glass Fiber	65997-17-3	30	2.00	
				Brominated Epoxy Resin	68928-70-1	10.5	0.70	
				Antimony Trioxide	1309-64-4	3	0.20	
				Pigment Blue 15	147-14-8	0.8	0.053	
17	Retaining Ring	Stainless Steel 420	0.067	Further Additives, Not to Declare	N/A	2	0.134	0.33
				Carbon	7440-44-0	0.3	0.001	
				Chromium	7440-47-3	13	0.043	
				Iron	7439-89-6	85.66	0.281	
				Manganese	7439-96-5	0.5	0.002	
				Phosphorus	7723-14-0	0.02	0.0001	
				Sulphur	7704-34-9	0.02	0.0001	
18	O-Ring x2	Silicone Rubber	0.0738	Silicon	7440-21-3	0.5	0.002	0.36
				Silicon Rubber	63394-02-5	100.00	0.361	
19	O-Ring	Nitrile Rubber	0.0093	Nitrile Rubber	9005-98-5	100.00	0.046	0.05

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20	Lube	Lube	0.09	Decanoic Acid, Mixed Esters With Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.4	0.24	0.44
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.025	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.15	
				Polyisobutylene	9003-27-4	6.2	0.027	
21	Lube	Lube	0.09	1-Decene, Tetramer, Mixed with 1-Decene Trimer, Hydrogenated	68649-12-7	58.8	0.259	0.44
				1-Propene, Polymer with Ethene	9010-79-1	30.8	0.136	
				Silica, Amorphous Fumed	112945-52-5	5.4	0.024	
				Polytetrafluoroethylene	9002-84-0	5	0.022	
22	Epoxy	UV-Epoxy	0.2200	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60	0.646	1.08
				Aluminium Oxide	1344-28-1	30	0.323	
				Silica, Amorphous Fumed	112945-52-5	10	0.108	
		Total weight	20.4382					

This Document was updated on: 1/14/2026

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.