

MATERIAL DECLARATION SHEET

BOURNS®

Material number	3590S-3-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	7.202	10.29
				Zinc	7440-66-6	30	3.0864	
		Plating	0.0900	Nickel	7440-02-0	100	0.7407	0.7407
2	Lock Washer	Carbon Steel C1050	0.17	Carbon	7440-44-0	0.5	0.0070	1.40
				Iron	7439-89-6	98.7	1.3810	
				Manganese	7439-96-5	0.75	0.0105	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.0004	
		Plating	0.0001	Nickel	7440-02-0	100	0.0008	0.0008
3	Lid	Resin	1.82	PBT	26062-94-2	53.7	8.04	14.98
				Glass Fiber	65997-17-3	30	4.49	
				Brominated Epoxy Resin	68928-70-1	10.5	1.57	
				Antimony Trioxide	1309-64-4	3	0.45	
				Pigment Blue 15	147-14-8	0.8	0.12	
				Further Additives, not to Declare	N/A	2	0.30	
4	Housing	Resin	3.1	PBT	26062-94-2	53.7	13.70	25.51
				Glass Fiber	65997-17-3	30	7.65	
				Brominated Epoxy Resin	68928-70-1	10.5	2.68	
				Antimony Trioxide	1309-64-4	3	0.77	

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				Pigment Blue 15	147-14-8	0.8	0.20	
				Further Additives, not to Declare	N/A	2	0.51	
5	Mandrel Wire	Annealed Copper Wire	1.22	Copper	7440-50-8	100	10.04	10.04
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0003	0.0003
6	Resist Wire	Nickel/Chromium Alloy	0.22	Nickel	7440-02-0	74	1.34	1.81
				Copper	7440-50-8	1	0.0181	
				Chromium	7440-47-3	21	0.38024	
				Aluminum	7429-90-5	1	0.01811	
				Silicon	7440-21-3	1	0.01811	
				Cobalt	7440-48-4	1	0.01811	
				Manganese	7439-96-5	1	0.01811	
7	Varnish	Hi-Thermo	0.052	Alkyd Resin	63148-69-6	99.5	0.42584	0.43
				Misc, Not to Declare	N/A	0.5	0.002	
8	T.R. Terminal x2	Copper CDA 194	0.121	Copper	7440-50-8	97.5	0.97	1.00
				Iron	7439-89-6	2.3	0.0229	
				Zinc (metal)	7440-66-6	0.1	0.0010	
				Lead	7439-92-1	0.01	0.0001	
				Further Additives	N/A	0.09	0.0009	
		Silver Alloy A56T	0.07	Silver	7440-22-4	56	0.3226	0.58
				Copper	7440-50-8	22	0.1267	
				Zinc	7440-66-6	17	0.0979	
				Tin	7440-31-5	5	0.0288	
		Plating	0.004	Tin	7440-31-5	100	0.0329	0.03
9	Rotor/Shaft Molded	Resin	1.78	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	9.67	14.65
				Glass Fiber	65997-17-3	32	4.69	
				Molybdenum Disulfide	1317-33-5	2	0.293	
10	Slider Molded	Resin	0.142	Polyamide 66	32131-17-2	53	0.62	1.17
				Glass Fibers	65997-17-3	32	0.37	
				Tetrafluoroethylene	9002-84-0	13	0.15	

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				Polymer				
				Dimethylsilicone	63148-62-9	2	0.02	
11	Contact Spring	Paliney #6	0.008	Palladium	7440-05-3	44	0.03	0.07
				Silver	7440-22-4	38	0.03	
				Copper	7440-50-8	16	0.011	
				Platinum	7440-06-4	1	0.0007	
				Nickel	7440-02-0	1	0.0007	
12	Collector Bar	Beryllium Copper Alloy CA-172 alloy 25	0.031	Beryllium	7440-41-7	1.90	0.005	0.26
				Nickel	7440-02-0	0.30	0.001	
				Cobalt	7440-48-4	0.30	0.001	
				Iron	7439-89-6	0.30	0.001	
				Aluminum	7429-90-5	0.10	0.0003	
				Silicon	7440-21-3	0.10	0.0003	
				Copper	7440-50-8	96.70	0.247	
				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	N/A	0.25	0.001	
		Under Plating	0.001	Nickel	7440-02-0	100	0.008	0.008
		Plating	0.001	Gold	7440-57-5	100	0.008	0.008
13	Terminal Wiper	Phosphor Bronze CDA 510	0.218	Copper	7440-50-8	94.6	1.697	1.79
				Iron	7439-89-6	0.06	0.001	
				Phosphorus	7723-14-0	0.2	0.003	
				Lead	7439-92-1	0.025	0.0004	
				Tin	7440-31-5	5.0	0.090	
				Zinc (Metal)	7440-66-6	0.1	0.002	
				Misc., Not to Declare	N/A	0.025	0.0004	
		Plating	0.002	Gold	7440-57-5	100.00	0.016	0.02
		Under Plating	0.002	Nickel	7440-02-0	100.00	0.016	0.02
14	Cover	Resin	1.365	PBT	26062-94-2	53.7	6.03	11.23
				Glass Fiber	65997-17-3	30	3.37	
				Brominated Epoxy Resin	68928-70-1	10.5	1.18	
				Antimony Trioxide	1309-64-4	3	0.34	
				Pigment Blue 15	147-14-8	0.8	0.090	

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				Further Additives, Not to Declare	N/A	2	0.225	
15	O-Ring x2	Silicone Rubber	0.0738	Silicon Rubber	63394-02-5	100.00	0.607	0.61
16	O-Ring	Nitrile Rubber	0.0093	Nitrile Rubber	9005-98-5	100.00	0.077	0.08
17	Lube	Lube	0.09	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.4	0.40	0.74
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.042	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.25	
				Polyisobutylene	9003-27-4	6.2	0.046	
18	Lube	Lube	0.09	1-Decene, Tetramer, Mixed with 1-Decene Trimer, Hydrogenated	68649-12-7	58.8	0.436	0.74
				1-Propene, Polymer with Ethene	9010-79-1	30.8	0.228	
				Silica, Amorphous Fumed	112945-52-5	5.4	0.040	
				Polytetrafluoroethylene	9002-84-0	5	0.037	
19	Epoxy	UV-Epoxy	0.2200	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60	1.086	1.81
				Aluminium Oxide	1344-28-1	30	0.543	
				Silica, Amorphous Fumed	112945-52-5	10	0.181	
		Total weight	12.1502					

This Document was updated on: 1/12/2026

Important remarks:

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