

MATERIAL DECLARATION SHEET

BOURNS®

Material number	3590S-6-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	2.3160	Copper	7440-50-8	70	8.347	11.92
				Zinc	7440-66-6	30	3.5774	
2	Lock Washer	Carbon Steel C1050	0.30	Carbon	7440-44-0	0.5	0.0078	1.57
				Iron	7439-89-6	98.7	1.5495	
				Manganese	7439-96-5	0.75	0.0118	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.0005	
		Plating	0.0001	Nickel	7440-02-0	100	0.0005	0.0005
3	Lid	Resin	1.22	PBT	26062-94-2	57	3.58	6.28
				Glass Fiber	65997-17-3	30	1.88	
				Antimonytrioxide	1309-64-4	3	0.19	
				ISO 1043-4 FR (17) Aromatic Brominated Compounds (Excluding Brominated Diphenyl Ether and Biphenyls) in Combination with Antimony Compounds, not Declarable	Proprietary	9	0.57	
				Additives, Not to Declare	Proprietary	1	0.06	
4	Bushing	Aluminum	1.041	Aluminum (Metal)	7429-90-5	92.93	4.98	5.36
				Bismuth	7440-69-9	0.4	0.02	

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				Copper	7440-50-8	5.5	0.29	
				Iron	7439-89-6	0.345	0.02	
				Lead	7439-92-1	0.4	0.0214	
				Silicon	7440-21-3	0.2	0.0107	
				Zinc (Metal)	7440-66-6	0.15	0.0080	
				Misc, Not to Declare	Proprietary	0.075	0.00	
		Plating	0.0001	Nickel	7440-02-0	100	0.0005	0.0005
5	Housing	Resing	3.1	PBT	26062-94-2	53.7	8.57	15.96
				Glass Fiber	65997-17-3	30	4.79	
				Brominated Epoxy Resin	68928-70-1	10.5	1.68	
				Antimony Trioxide	1309-64-4	3	0.48	
				Pigment Blue 15	147-14-8	0.8	0.13	
				Further Additives, not to Declare	Proprietary	2	0.32	
6	Mandrel Wire	Annealed Copper Wire	1.22	Copper	7440-50-8	100	6.28	6.28
		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	0.84	1.13
				Copper	7440-50-8	1	0.0113	
				Chromium	7440-47-3	21	0.23787	
				Aluminum	7429-90-5	1	0.01133	
				Silicon	7440-21-3	1	0.01133	
				Cobalt	7440-48-4	1	0.01133	
				Manganese	7439-96-5	1	0.01133	
8	Varnish	Hi-Thermo BC-346A	0.052	Alkyd Resin	63148-69-6	99.5	0.26640	0.27
				Misc, Not to Declare	Proprietary	0.5	0.001	
9	T.R. Terminal X2	Copper CDA 194	0.121	Copper	7440-50-8	97.5	0.61	0.62
				Iron	7439-89-6	2.3	0.0143	
				Zinc (Metal)	7440-66-6	0.1	0.0006	
				Lead	7439-92-1	0.01	0.0001	
				Further Additives	Proprietary	0.09	0.0006	

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		Silver Alloy A56T	0.07	Silver	7440-22-4	56	0.2018	0.36
		Plating	0.004	Copper	7440-50-8	22	0.0793	
				Zinc	7440-66-6	17	0.0613	
				Tin	7440-31-5	5	0.0180	
				Tin	7440-31-5	100	0.0206	0.02
10	Shaft	Brass C360	6.505	Copper	7440-50-8	61.5	20.5980	33.49
				Iron	7439-89-6	0.2	0.06699	
				Lead	7439-92-1	3.0	1.0048	
				Zinc	7440-66-6	35	11.7225	
				Misc, not to Declare	Proprietary	0.3	0.1005	
		Plating	0.001	Nickel	7440-02-0	100	0.0051	0.005
11	Rotor/Shaft Molded	Resin	1.01	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	3.43	5.20
				Glass Fiber	65997-17-3	32	1.66	
				Molybdenum Disulfide	1317-33-5	2	0.104	
12	Slider Molded	Resin	0.142	Polyamide 66	32131-17-2	53	0.39	0.73
				Glass Fibers	65997-17-3	32	0.23	
				Tetrafluoroethylene Polymer	9002-84-0	13	0.10	
				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	0.02	
				Copper	7440-50-8	16	0.007	
				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	0.16
				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	
				Copper	7440-50-8	96.70	0.1543	

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				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	Proprietary	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	1.062	1.12
				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	0.056	
				Zinc (Metal)	7440-66-6	0.1	0.001	
				Misc., Not to Declare	Proprietary	0.025	0.0003	
		Plating	0.002	Gold	7440-57-5	100.00	0.010	0.01
		Under Plating	0.002	Nickel	7440-02-0	100.00	0.010	0.01
16	Cover	Resin	1.365	PBT	26062-94-2	53.7	3.77	7.03
				Glass Fiber	65997-17-3	30	2.11	
				Brominated Epoxy Resin	68928-70-1	10.5	0.74	
				Antimony Trioxide	1309-64-4	3	0.21	
				Pigment Blue 15	147-14-8	0.8	0.056	
				Further Additives, Not to Declare	Proprietary	2	0.141	
17	Retaining Ring	Stainless Steel 420	0.067	Carbon	7440-44-0	0.3	0.001	0.34
				Chromium	7440-47-3	13	0.045	
				Iron	7439-89-6	85.66	0.295	
				Manganese	7439-96-5	0.5	0.002	
				Phosphorus	7723-14-0	0.02	0.0001	
				Sulphur	7704-34-9	0.02	0.0001	
				Silicon	7440-21-3	0.5	0.002	
18	Lube	Lube	0.09	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.4	0.25	0.46
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.026	

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				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.16	
				Polyisobutylene	9003-27-4	6.2	0.029	
19	Lube	Lube	0.09	1-Decene, Tetramer, Mixed with 1-Decene Trimer, Hydorgenated	68649-12-7	58.8	0.272	0.46
				1-Propene, Polymer with Ethene	9010-79-1	30.8	0.143	
				Silica, Amorphous Fumed	112945-52-5	5.4	0.025	
				Polytetrafluoroethylene	9002-84-0	5	0.023	
20	Epoxy	UV Epoxy	0.2200	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60	0.680	1.13
				Aluminum Oxide	1344-28-1	30	0.340	
				Silica, Amorphous Fumed	112945-52-5	10	0.113	
		Total weight	19.4221					

This Document was updated on: 2/17/2026

Important remarks:

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