


MATERIAL DECLARATION SHEET



Material Number	3590S-2-L			
Product Line	Sensors & Controls			
Compliance Date	9/17/2023			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Hex Nut	Brass C360	0.0079	Copper	7440-50-8	61.50	0.024	0.04
				Zinc	7440-66-6	35.40	0.0140	
				Lead	7439-92-1	3.10	0.0012	
		Plating	0.0001	Nickel	7440-02-0	100	0.04	0.001
2	Lockwasher	Stainless Steel 304	0.0109	Carbon	7440-44-0	0.18	0.0001	0.05
				Manganese	7439-96-5	2	0.001	
				Phosphorus	7723-14-0	0.045	0.00002	
				Sulfur	7704-34-9	0.03	0.00002	
				Silicon	7440-21-3	0.75	0.0004	
				Chromium	7440-47-3	17	0.01	
				Nickel	7440-02-0	8	0.004	
				Iron	7439-89-6	71.995	0.04	
		Plating	0.0001	Nickel	7440-02-0	100	0.05	0.001
3	Epoxy	UV-2665 EPOXY	0.1280	Epoxy resin	2386-87-0	65	0.026	0.64
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.13	
				Aluminum trioxide	1344-28-1	10	0.06	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.022	
				Propylene carbonate	108-32-7	1.5	0.010	

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4	Housing	ShinKong compound (Blue)	3.15	PBT	30965-26-5	49	7.74	15.80
				glass fiber	65997-17-3	35	5.53	
				brominated epoxy resin	68928-70-1	10	1.58	
				antimony trioxide	1309-64-4	6	0.95	
5	Terminal (x2)	Copper CDA 194	0.242	Copper	7440-50-8	97.4	1.18	1.24
				Iron	7439-89-6	2.4	0.0291	
				Zinc	7440-66-6	0.15	0.0018	
				Phosphorus	7723-14-0	0.05	0.0006	
		Plating	0.004	Tin	7440-31-5	100	1.2140	
Inlay	0.002	Silver	7440-22-4	100	1.2140			
6	Bushing	Zamak Alloy #5	2.67	Aluminum	7429-90-5	4.3	0.5760	13.39
				Copper	7440-50-8	1.25	0.1674	
				Magnesium	7439-95-4	0.008	0.0011	
				Iron	7439-89-6	0.1	0.0134	
				Lead	7439-92-1	0.005	0.0007	
				Cadmium	7440-31-5	0.004	0.0005	
				Tin	7440-31-5	0.003	0.0004	
				Zinc	7440-66-6	94.33	12.6349	
7	Mandrel Wire	Copper	2.253	Copper	7440-50-8	100	11.30	11.30
8	Resist Wire	Copper Alloys C11400	0.1367	Copper	7440-50-8	99.99	0.69	0.69
				Oxygen	7782-44-7	0.009	0.0001	
				Phosphorus	7723-14-0	0.0003	0.00000	
				Tellurium	13494-80-9	0.0007	0.00000	
9	Collector Bar	BeCu CA-172 alloy 25	0.031	Beryllium	7440-41-7	1.9	0.003	0.18
				Copper	7440-50-8	97.48	0.15	
				Cobalt	7440-48-4	0.2	0.0003	
				Nickel	7440-02-0	0.2	0.0003	

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				Iron	7439-89-6	0.2	0.0003	
				Lead	7439-92-1	0.02	0.00003	
		Plating	0.004	Gold	7440-57-5	100	0.02	
10	Lube	NYE N799	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.02	0.04
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.002	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.01	
				Polyisobutylene	9003-27-4	6.2	0.002	
11	Lube	NYE 774F	0.008	1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	58.8	0.024	0.04
				1-Propene, polymer with ethene	9010-79-1	30.8	0.012	
				Silica, amorphous fumed	112945-52-5	5.4	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.002	
12	Lid	ShinKong compound (Blue)	1.844	PBT	30965-26-5	49	4.53	9.25
				Glass Fiber	65997-17-3	35	3.24	
				Brominated Epoxy Resin	68928-70-1	10	0.93	
				Antimony Trioxide	1309-64-4	6	0.56	
13	Rotor/Shaft Molded	GS-51 Nylatron	2.234	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	7.40	11.21
				Glass Fiber	65997-17-3	32	3.59	

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				Molybdenum Disulfide	1317-33-5	2	0.224	
14	Slider Molded	GS-51 Nylatron	0.11	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	0.36	0.55
				Glass Fiber	65997-17-3	32	0.18	
				Molybdenum Disulfide	1317-33-5	2	0.01	
15	Contact Spring	Alloy B540	0.008	Silver	7440-22-4	29	0.01	0.04
				Copper	7440-50-8	14.5	0.01	
				Gold	7440-57-5	10.5	0.004	
				Platinum	744-06-4	10.5	0.004	
				Zinc	7440-66-6	1.2	0.000	
				Paladium	7440-05-3	34.3	0.01	
16	Cover	ShinKong compound (Blue)	1.388	PBT	30965-26-5	49	3.41	6.96
				Glass Fiber	65997-17-3	35	2.44	
				Brominated Epoxy Resin	68928-70-1	10	0.696	
				Antimony Trioxide	1309-64-4	6	0.418	
		Phosphor Bronze CDA 510	1.428	Lead	7439-92-1	0.05	0.004	7.16
				Zinc	7440-66-6	0.3	0.02	
				Iron	7439-89-6	0.10	0.007	
				Tin	7440-31-5	5.80	0.42	
				Phosphorus	7723-14-0	0.35	0.025	
				Copper	7440-50-8	93.40	6.69094	
17	Terminal Wiper	Phosphor Bronze CDA 510	1.95	Lead	7439-92-1	0.05	0.00	9.78
				Zinc	7440-66-6	0.3	0.029	
				Iron	7439-89-6	0.10	0.010	
				Tin	7440-31-5	5.80	0.567	
				Phosphorus	7723-14-0	0.35	0.034	
				Copper	7440-50-8	93.40	9.137	

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18	Retaining Ring	Stainless Steel 420	0.082	Carbon	7440-44-0	0.15	0.001	0.41
				Silicon	7440-21-3	1.00	0.004	
				Manganese	7439-96-5	1.00	0.004	
				phosphorus	7723-14-0	0.04	0.0002	
				Sulfur	7704-34-9	0.03	0.0001	
				Chromium	7440-47-3	14.00	0.058	
				Iron	7439-89-6	83.78	0.345	
19	Shaft	Brass C360	2.234	Copper	7440-50-8	61.50	6.892	11.21
				Zinc	7440-66-6	35.40	3.967	
				Lead	7439-92-1	3.10	0.347	
		Total weight	19.9337					

This Document was updated on: 9/17/2023

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.