


MATERIAL DECLARATION SHEET



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|-----------------|------------------------|-----|---|---|
| Material Number | PF-KT1 Series (20~50A) | | |  |
| Product Line | Power Fuses | | | |
| Compliance Date | 2022/03/01 | | | |
| RoHS Compliant | Yes | MSL | 1 | |

| 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 | Fuse element wire | Silver | 0.3177 | Silver | 7440-22-4 | 100% | 3.070% | 3.070% |
| 2 | Inner cap-base | Copper | 1.1109 | Copper | 7440-50-8 | 100% | 10.735% | 10.735% |
| 3 | Inner cap-plating | Tin plating | 0.0227 | Tin | 7440-31-5 | 100% | 0.219% | 0.219% |
| 4 | Outer cap-base | Copper | 2.283414 | Copper | 7440-50-8 | 100% | 22.066% | 22.066% |
| 5 | Outer cap-plating | Nickel plating | 0.066986 | Nickel | 7440-02-0 | 100% | 0.647% | 0.647% |
| 6 | Ceramic tube | Ceramic | 4.29 | Silicon dioxide | 14808-60-7 | 53.74% | 22.278% | 41.456% |
| | | | | Aluminum oxide | 1344-28-1 | 34.48% | 14.294% | |
| | | | | Magnesium oxide | 1309-48-4 | 10.32% | 4.278% | |
| | | | | Misc., not to declare | - | 1.46% | 0.605% | |
| 7 | Quartz sand | Silica sand | 1.38 | Tridymite silica | 15468-32-3 | 100% | 13.336% | 13.336% |
| 8 | Solder | SnCu solder | 0.114 | Tin | 7440-31-5 | 96.723% | 1.066% | 1.102% |
| | | | | Copper | 7440-50-8 | 2.277% | 0.025% | |
| | | | | Rosin | 8050-09-7 | 1% | 0.010% | |
| 9 | Low melting point alloy | SnCu solder | 0.055 | Tin | 7440-31-5 | 97.7% | 0.519% | 0.531% |
| | | | | Copper | 7440-50-8 | 0.7% | 0.004% | |
| | | | | Rosin | 8050-09-7 | 1.6% | 0.008% | |

MATERIAL DECLARATION SHEET

BOURNS®

| 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. (%) |
|----------------------|-------------------------------|----------------------|---------------------|--|---------------------|------------------|-----------------------------------|-------------------------------|
| 10 | Paper | Paper | 0.05 | Silicified Microcrystalline Cellulose | 9004-34-6 | 5.25% | 0.02535% | 0.483% |
| | | | | Cellulose | 65996-61-4 | 89.5% | 0.4323% | |
| | | | | Misc., not to declare | - | 5.25% | 0.02535% | |
| 11 | Marking Ink | Marking ink (dry) | 0.00045 | Synthetic epoxy resin | 25068-38-6 | 40.1% | 0.0016% | 0.004% |
| | | | | Pigment | Confidential | 17.9% | 0.0007% | |
| | | | | Pigment-carbon black | 1333-86-4 | | | |
| | | | | Pigment-titanium dioxide | 13463-67-7 | | | |
| | | | | Polyamide Resin | 68410-23-1 | 38.8% | 0.0016% | |
| Polydimethylsiloxane | 63148-62-9 | 3.2% | 0.0001% | | | | | |
| 12 | Silicone | Silicone | 0.033 | Silicon dioxide | 14808-60-7 | 34% | 0.1085% | 0.319% |
| | | | | Monovinyl terminated dimethyl (xanthane and polyoxonane) | 68083-19-2 | 20% | 0.0638% | |
| | | | | Vinyl MQ resin mixture | 68988-89-6 | 20% | 0.0638% | |
| | | | | Dimethyl methyl hydrogen (deoximane and polyxanthane) | 68037-59-2 | 20% | 0.0638% | |
| | | | | Aluminum oxide | 1344-28-1 | 6% | 0.0191% | |
| 13 | Terminal-base | Copper | 0.5928 | Copper | 7440-50-8 | 100% | 5.728% | 5.728% |
| 14 | Terminal-plating | Tin plating | 0.0312 | Tin | 7440-31-5 | 100% | 0.301% | 0.301% |
| | | Total Weight | 10.3483 | | | | | |

This Document was updated on: 2022/03/01

Important remarks: It is the responsibility of the user to verify they are accessing the latest version.