

Fair-Rite P/N **2744045447**

44 Material Grade

Nominal Chemical Composition

Supporting notes:

1. P/N 2744045447 consists of:
 - a core 44 Material Grade
 - b wire Pb- Free Plated Flat Cu Wire
2. Moisture Sensitivity Level (MSL)= 1
3. Max Reflow Temp= 260 degC
4. Max Time at Max Reflow Temp= 40 sec
5. RoHS 6/6 Compliant Terminations/ Wire are backwards compatible with standard Soldering Processes
6. RoHS Conversion Date= 1/1/2005
7. RoHS Compliance Marking is Contained on Shipping Labels

| <u>Compound</u> | <u>CAS Number</u> | <u>wt %</u> | Wt of core (g)= 0.490 | Compound Weight (g) Breakdown of 44 Material |
|-----------------|-------------------|-------------|---------------------------------|--|
| Fe2O3 | 1309-37-1 | 63.97 | 0.3135 | |
| ZnO | 1314-13-2 | 21.00 | 0.1029 | |
| NiO | 1313-99-1 | 11.00 | 0.0539 | |
| CuO | 1317-38-0 | 4.00 | 0.0196 | |
| Bi2O3 | 1304-76-3 | 0.03 | 0.0001 | |

Pb- Free Plated Flat Cu Wire

| <u>Element</u> | <u>CAS Number</u> | <u>wt%</u> | Wt of wire (g)= 0.040 | Element Weight (g) Breakdown of Pb- Free Plated Round Cu Wire |
|----------------|-------------------|------------|---------------------------------|--|
| Cu | 7440-50-8 | 93.3 | 0.03732 | |
| Plating: | | | | |
| Ni | 7440-02-0 | 2.2 | 0.00088 | |
| Sn | 7440-31-5 | 4.5 | 0.00180 | |

Calculated Maximum Levels of RoHS Restricted Substances Present in 44 Material Grade

| <u>Impurity Substance</u> | <u>RoHS Threshold (ppm)</u> | <u>ppm</u> | Wt of core (g)= 0.490 | RoHS Impurity Substance Weight (g) Breakdown of 44 Material |
|------------------------------------|-----------------------------|------------|---------------------------------|--|
| Cr+6 | 1000 | 0.00 | 0 | |
| Cd | 100 | 6.09 | 2.9841E-06 | |
| Hg | 1000 | 0.09 | 4.41E-08 | |
| Pb | 1000 | 10.90 | 0.000005341 | |
| PBB | 1000 | 0.00 | 0 | |
| PBDE | 1000 | 0.00 | 0 | |
| Bis(2-Ethylhexyl) phthalate (DEHP) | 1000 | 0.00 | 0 | |
| Benzyl butyl phthalate (BBP) | 1000 | 0.00 | 0 | |
| Dibutyl phthalate (DBP) | 1000 | 0.00 | 0 | |
| Diisobutyl phthalate (DIBP) | 1000 | 0.00 | 0 | |