

# Fair-Rite P/N **2743014221**

## 43 Material Grade

## Nominal Chemical Composition

### Supporting notes:

1. P/N 2743014221 consists of:
  - a core 43 Material Grade
  - b wire Pb- Free Plated Round 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  
RoHS Compliance Marking is
7. Contained on Shipping Labels

| <u>Compound</u> | <u>CAS Number</u> | <u>wt %</u> | Wt of core (g)=<br><b>6.21</b> | Compound Weight<br>(g) Breakdown of<br>43 Material |
|-----------------|-------------------|-------------|--------------------------------|--|
| Fe2O3           | 1309-37-1         | 65          | 4.0365                         |  |
| ZnO             | 1314-13-2         | 21          | 1.3041                         |  |
| NiO             | 1313-99-1         | 10          | 0.6210                         |  |
| CuO             | 1317-38-0         | 4           | 0.2484                         |  |

## Pb- Free Plated Round Cu Wire

| <u>Element</u> | <u>CAS Number</u> | <u>wt%</u> | Wt of wire (g)=<br><b>0.29</b> | Element Weight (g)<br>Breakdown of Pb-<br>Free Plated Round<br>Cu Wire |
|----------------|-------------------|------------|--------------------------------|--|
| Cu             | 7440-50-8         | 97.8       | 0.28362                        |  |
| Plating:       |                   |            |                                |  |
| Ni             | 7440-02-0         | 0.7        | 0.00203                        |  |
| Sn             | 7440-31-5         | 1.5        | 0.00435                        |  |

## Calculated Maximum Levels of RoHS Restricted Substances Present in 43 Material Grade

| <u>Impurity Substance</u> | <u>RoHS Threshold (ppm)</u> | <u>ppm</u>   | Wt of core (g)=<br><b>6.21</b> | RoHS Impurity<br>Substance Weight<br>(g) Breakdown of<br>43 Material |
|---------------------------|-----------------------------|--------------|--------------------------------|--|
| Cr+6                      | 1000                        | 0.00         | 0                              |  |
| Cd                        | 100                         | <b>6.10</b>  | 0.000037881                    |  |
| Hg                        | 1000                        | <b>0.10</b>  | 0.000000621                    |  |
| Pb                        | 1000                        | <b>11.00</b> | 0.00006831                     |  |
| PBB                       | 1000                        | 0.00         | 0                              |  |
| PBDE                      | 1000                        | 0.00         | 0                              |  |