

# Fair-Rite P/N **2744065446**

## 44 Material Grade

## Nominal Chemical Composition

<u>Compound</u>	<u>CAS Number</u>	<u>wt %</u>	Wt of core (g)=	
			<b>1.57</b>	
Fe2O3	1309-37-1	63.97	1.0043	Compound Weight (g) Breakdown of 44 Material
ZnO	1314-13-2	21.00	0.3297	
NiO	1313-99-1	11.00	0.1727	
CuO	1317-38-0	4.00	0.0628	
Bi2O3	1304-76-3	0.03	0.0005	

## Pb- Free Plated Round Cu Wire

<u>Element</u>	<u>CAS Number</u>	<u>wt%</u>	Wt of wire (g)=	
			<b>0.23</b>	
Cu	7440-50-8	96.9	0.22287	Element Weight (g) Breakdown of Pb- Free Plated Round Cu Wire
Plating:				
Ni	7440-02-0	0.5	0.00115	
Sn	7440-31-5	2.6	0.00598	

## 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)=	
			<b>1.57</b>	
Cr+6	1000	0.00	0	RoHS Impurity Substance Weight (g) Breakdown of 44 Material
<b>Cd</b>	100	<b>6.09</b>	9.5613E-06	
<b>Hg</b>	1000	<b>0.09</b>	1.413E-07	
<b>Pb</b>	1000	<b>10.90</b>	0.000017113	
PBB	1000	0.00	0	
PBDE	1000	0.00	0	

### Supporting notes:

1. P/N 2744065446 consists of:
  - a core 44 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
7. RoHS Compliance Marking is Contained on Shipping Labels