

# Fair-Rite P/N **294466631**

**44 Material Grade**

## Nominal Chemical Composition

<u>Compound</u>	<u>CAS Number</u>	<u>wt %</u>	Wt of core (g)= <b>1.200</b>	Compound Weight (g) Breakdown of 44 Material
Fe2O3	1309-37-1	64	0.768	
ZnO	1314-13-2	21	0.252	
NiO	1313-99-1	11	0.132	
CuO	1317-38-0	4	0.048	

## Pb- Free Plated Round Cu Wire

<u>Element</u>	<u>CAS Number</u>	<u>wt%</u>	Wt of wire (g)= <b>0.200</b>	Element Weight (g) Breakdown of Pb- Free Plated Round Cu Wire
Cu	7440-50-8	92.9	0.1858	
Plating:				
Ni	7440-02-0	1.2	0.0024	
Sn	7440-31-5	5.9	0.0118	

## 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>1.2</b>	RoHS Impurity Substance Weight (g) Breakdown of 44 Material
Cr+6	1000	0	0	
Cd	100	6.09	0.000007308	
Hg	1000	0.09	0.000000108	
Pb	1000	10.90	0.00001308	
PBB	1000	0	0	
PBDE	1000	0	0	
Bis(2-Ethylhexyl) phthalate (DEHP)	1000	0	0	
Benzyl butyl phthalate (BBP)	1000	0	0	
Dibutyl phthalate (DBP)	1000	0	0	
Diisobutyl phthalate (DIBP)	1000	0	0	

### Supporting notes:

1. P/N 294466631 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  
RoHS Compliance Marking is
7. Contained on Shipping Labels