

# Fair-Rite P/N 2743005112

## 43 Material Grade

## Nominal Chemical Composition

<u>Compound</u>	<u>CAS Number</u>	<u>wt %</u>	Wt of core (g)= <b>0.2190</b>	Compound Weight (g) Breakdown of 43 Material
Fe2O3	1309-37-1	65	0.14235	
ZnO	1314-13-2	21	0.04599	
NiO	1313-99-1	10	0.02190	
CuO	1317-38-0	4	0.00876	

## Pb- Free Plated Round Cu Wire

<u>Element</u>	<u>CAS Number</u>	<u>wt%</u>	Wt of wire (g)= <b>0.1810</b>	Element Weight (g) Breakdown of Pb- Free Plated Round Cu Wire
Cu	7440-50-8	94.4	0.17086	
Plating:				
Ni	7440-02-0	0.9	0.00163	
Sn	7440-31-5	4.7	0.00851	

## 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)= <b>0.219</b>	RoHS Impurity Substance Weight (g) Breakdown of 43 Material
Hexavalent chromium (Cr+6)	1000	0.00	0	
Cadmium (Cd)	100	6.10	1.3359E-06	
Mercury (Hg)	1000	0.10	2.19E-08	
Lead (Pb)	1000	11.00	0.000002409	
Polybrominated biphenyl (PBB)	1000	0.00	0	
Polybrominated diphenyl (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	

### Supporting notes:

1. P/N 2743005112 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