

## HAMMOND 75% RED LEAD

## ULTRA HIGH PURITY BATTERY GRADE TECHNICAL DATA

### APPLICATIONS

This material is produced for use in the positive plates of tubular traction batteries and as an additive to the plates of other lead-acid batteries to improve formation charging and initial capacity.

### PHYSICAL PROPERTIES

<b>Color</b>	Red
<b>Form</b>	Powder
<b>Density</b>	9.10 - 9.20 g/cm <sup>3</sup>
<b>Apparent Density</b>	16 - 24 g/in <sup>3</sup>
<b>Acid Absorption</b>	200 - 235 mg/g
<b>Median Particle Size</b>	2.2 - 3.2 μM (typical)
<b>Screen Analysis (U.S. Standard Sieve)</b>	99.9% <325 mesh

### CHEMICAL COMPOSITION

<b>Pb<sub>3</sub>O<sub>4</sub></b> (Red Lead)	72% - 80%
<b>PbO</b> (Litharge)	20% - 28%
<b>Pb</b> (Free Lead)	1.0% maximum

### TRACE ELEMENTS

<b>Element</b>	<b>Maximum %</b>
Iron Oxide	0.0010
Zinc Oxide	0.0008
Copper Oxide	0.0005
Silver	0.0012
Bismuth Oxide	0.0100
Arsenic Oxide	0.0003
Antimony Trioxide	0.0003
Tin Oxide	0.0003
Nickel	0.0002
Tellurium	0.0002
Cadmium	0.0002
Cobalt	0.0002
Chromium	0.0002
Manganese	0.0002
Selenium	0.0002

### PACKAGING

50 lb. paper bags  
500 lb. 28-gallon steel drums  
2,000 lb. bulk bags  
1,000 kg bulk bags  
Pneumatic bulk trailer

### NOTES

This data sheet illustrates typical values for this product. If specific characteristics are required that are different from these values, please contact your area sales representative.

**HAMMOND**  
THE CHANGE CATALYST®

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