



# 75% RED LEAD

STANDARD  
BATTERY GRADE

## Application

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

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

## Chemical Composition

Pb <sub>3</sub> O <sub>4</sub> (red lead)	72% - 80%
PbO (litharge)	20% - 28%
Pb	1.0% max.

Trace Elements	Maximum (%)
Fe <sub>2</sub> O <sub>3</sub>	0.0050
ZnO	0.0010
Cu <sub>2</sub> O	0.0015
Ag	0.0050
Bi <sub>2</sub> O <sub>3</sub>	0.0250
As <sub>2</sub> O <sub>5</sub>	0.0005
Sb <sub>2</sub> O <sub>3</sub>	0.0005
SnO <sub>2</sub>	0.0005
Ni	0.0003
Te	0.0003
Cd	0.0003
Co	0.0003
Cr	0.0003
Mn	0.0003
Se	0.0003

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

**NOTE:** 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.



1414 Field Street, Hammond, IN 46320  
 Phone: (219) 931-9360 Fax: (219) 931-2140

www.hmndgroup.com  
 customerservice@hmndgroup.com