

Excellence in Refinement, Devotion to Energy

Red Lead (Pb₃O₄)

- Purity Grades from 85% to 99.9%

ACM Refineries (Pvt) Ltd.

Pioneering Red Lead and Oxide manufacturing in Pakistan

ACM Refineries (Pvt) Ltd. proudly introducing Pakistan's First Fully Automated Red Lead Manufacturing Plant, setting a new benchmark in the non-ferrous metal refining industry. As a key subsidiary of the ACM Group of Industries, ACM Refineries has firmly established itself as the largest producer of red lead in the country, focused exclusively on producing high-purity Red Lead (Pb₃O₄), using fully automated Barton Mill-based technology.

Strategic Impact

Pakistan's largest Red Lead smelting plant, capable of meeting the entire country's demand. With an impressive annual production capacity, ACM Refineries is well-positioned to not only meet but surpass national demand, replacing imports with high-quality, locally produced alternatives.



Your requirement. Our Solution.

Red Lead (Pb₃O₄)



- ACM Red-85 (Industrial Grade) Pb₃O₄ ≥ 85%
- ACM Red-97 (Standard Grade) Pb₃O₄ ≥ 97%
- ACM Red-98 (Prime Grade) Pb₃O₄ ≥ 98%
- ACM Red-99 (Superior Grade) Pb₃O₄ ≥ 99%
- ACM Red-99.9 (Ultra Grade) Pb₃O₄ ≥ 99.97%
- ACM Red-C (Custom grade on demand)





Technical Highlights



- Color: Orange-red to brick-red
- Specific Gravity: 9.1
- PbO₂ Content: ≥33.3%
- Pb₃O₄ Content: 85% 99.9% depending on grade
- Moisture: ≤0.1%
- Residue (325 mesh): ≤0.5%
- Purity: Up to 99.9%

Applications Red Lead

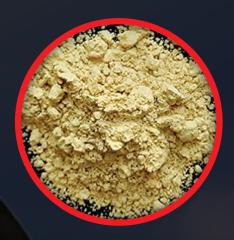
- Lead-Acid Batteries: Critical for manufacturing positive plates (tubular, VRLA, automotive),
 improving bonding strength, conductivity, and cycle life.
- Protective Coatings: Key ingredient in heavy-duty anti-corrosive primers for bridges, pipelines, marine structures, and industrial equipment.
- Ceramics & Glass: Acts as a flux in glazes and enamels, enhancing brightness and reducing firing temperatures; also used in lead crystal and X-ray shielding glass for refractive index and radiation absorption.
- Pigments & Chemicals: Functions as a coloring agent, catalyst, and drier in paints, plastics, and chemical processes.
- Other Uses: Applied in pyrotechnics, fireworks, metallurgy, and specialized industrial chemistry.

Litharge (PbO)



Litharge (PbO)

- AL-25 Litharge (Purity Range: 25% PbO)
- AL-28 Litharge (Purity Range: 28% PbO)
- AL-31 Litharge (Purity Range: 31% PbO)
- AL-C Litharge (Custom grade on demand)





Technical Highlights



(Typical Range):

- Technical Name: Lead Oxide PbO
- Color: Grey to Grayish Yellow
- Apparent Density: 1.4 1.8 g/cc
- PbO Content: 70% 85%
- Moisture: ≤1%
- Acid Absorption: 160 190 g/kg
- Purity: Up to 85% +

Applications Red Lead

- Lead-Acid Batteries: Used in active mass preparation, especially in paste mix for positive plates, to improve curing and charge–discharge performance.
- Ceramics & Glass: Acts as a flux in ceramic glazes and enamels; improves brightness, reduces firing temperature, and enhances thermal/radiation resistance in glass.
- Lubricants & Stabilizers: Used in greases, rubber compounding, and as a stabilizer in PVC formulations.
- Paints & Coatings: Serves as a component in rust-inhibiting paints and primers.
- Chemicals & Catalysts: Functions as an intermediate in producing other lead compounds, and as a catalyst/drier in chemical processes.

Why Choose ACM Refineries?

Pioneering Facility:

Pakistan's first fully automated red lead manufacturing plant.

- High Capacity:

 3,600+ tonnes annual production, covering local demand and reducing imports.
- Consistent Quality:
 Strict QC with COA (Certificate of Analysis) provided for every batch.
- Flexible Grades:
 Full range from 85% to 99.9% purity.
- Sustainable Practices:
 Environmentally conscious operations aligned with global standards.

Product Packaging



- Standard: 25 kg capacity polypropylene woven bags with fine inner liner and outside printing
- Palletized and stretch-wrapped for safe handling
- Jumbo bags available on request





















Plot # 36A, Phase III, Industrial Estate Hattar District Haripur, KPK - Pakistan.

HEADQUARTE

House # 2, Street # 63, Sector F-8/4, Islamabad - Pakistan. Tel: +92-51-111-22-00-22 Email: refinery@acmgroup.com.pk www.acmgroup.com.pk