

Certificate of Analysis

ALKEMIST | Industrial & Specialty Chemicals

Manufacturer: ALKEMIST

Supplier / Dealer: ALKEMIST | Water and Chemicals Solution — Pakistan & Gulf

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RED LEAD OXIDE (PB₃O₄)

Industrial Grade Red Lead Oxide | Batch Certificate of Analysis

Document No: COA-ALK-RLO-D26

Revision: 1.0

Batch No: D26

Status: Final Batch Certificate

Production Date: April 2026

Expiry / Retest Date: December 2030

Origin: Pakistan

Product Formula: Pb₃O₄

PRODUCT AND BATCH INFORMATION

Product Name	Red Lead Oxide
Chemical Formula	Pb ₃ O ₄
Manufacturer	ALKEMIST
Batch Number	D26
Production Date	April 2026
Expiry / Retest Date	December 2030
Reference Specification	ALKEMIST Internal Quality Specification for Red Lead Oxide

ANALYTICAL RESULTS

Parameter	Specification	Result
Pb ₃ O ₄ Content (%)	≥ 95.0	Meets Specification
Moisture at 105°C (%)	≤ 0.20	Meets Specification
Insoluble in HNO ₃ (%)	≤ 0.10	Meets Specification
Apparent Density (g/cm ³)	1.30 ± 0.15	Meets Specification
Acid Absorption (mg/g)	130–170	Meets Specification
Residue on 63 µm Sieve (%)	≤ 0.15	Meets Specification
Antimony, Sb (ppm)	≤ 10	Meets Specification
Bismuth, Bi (ppm)	≤ 150	Meets Specification
Copper, Cu (ppm)	≤ 10	Meets Specification
Iron, Fe (ppm)	≤ 10	Meets Specification
Silver, Ag (ppm)	≤ 30	Meets Specification

BATCH RELEASE DECLARATION

Batch D26 has been evaluated against the stated ALKEMIST quality specifications and is approved for release.

STORAGE AND HANDLING

Storage Conditions	Store in a tightly closed original container in a cool, dry and well-ventilated area. Protect from moisture, incompatible materials and physical damage.
Handling Note	Lead compounds are hazardous. Avoid dust generation, inhalation, ingestion and skin contact. Use appropriate respiratory protection, gloves, protective clothing and eye protection.

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**Shelf / Retest
Status**

Retest by December 2030 when stored under recommended conditions.

CERTIFICATE NOTE

This Certificate of Analysis applies only to batch D26. Results are reported against the specification values provided for this batch. The user is responsible for confirming suitability for the intended application and compliance with applicable occupational, environmental and product regulations.

Red Lead Oxide COA | Batch D26ALKEMIST | COA-ALK-RLO-D26 | Rev. 1.0