



**LEAD HAZARD**  
**WORK AREA KEEP OUT**  
NO SMOKING, EATING, OR DRINKING

## Vanta™ Handheld XRF Analyzers

for Industrial Lead-Based Paint Analysis\*

### Fast, Accurate Lead Paint Testing

For lead-based paint (LBP) testing, the Vanta handheld X-ray fluorescence (XRF) analyzer delivers optimum accuracy and maximum productivity. Most tests take less than 3 seconds, and even the longest tests are typically less than 10 seconds.

Because of their fast, nondestructive, and on-the-spot testing capabilities, Vanta handheld XRF analyzers rapidly screen for lead (Pb). Screen for lead with Vanta analyzers before you begin grinding, cutting, or painting. You can also use the analyzer to check your work area after clean-up.

The table below gives precision data in the context of industrial lead paint testing, where the action levels are typically in the 1.0 mg/cm<sup>2</sup> range, and testing times are often less than 10 seconds.

#### The Repeatability You Need

Typical variation in results when testing a 0.3 mg/cm<sup>2</sup> standard are excellent whether the lead is buried or on the surface. Variation decreases as test time increases.

| LBP Sample Type | Surface | Buried (12 layers of blank paint) |
|-----------------|---------|-----------------------------------|
| 3-Second Test   | 0.031   | 0.037                             |
| 10-Second Test  | 0.017   | 0.027                             |

For most paint matrices, Vanta analyzers can deliver a rapid, accurate result in 3 seconds. When identifying a challenging paint matrix through spectral analysis, the measurement time can be extended for greater accuracy and analytical confidence.

### Vanta Handheld XRF for Fast, Accurate, and Nondestructive Lead-Based Paint Testing

Vanta handheld XRF lead paint analyzers enable on-site determinations of potentially dangerous levels of Pb in suspected areas. Vanta analyzers provide a better way to identify the presence of lead paint on all the usual surfaces, including wood, plaster, drywall, stucco, concrete, brick, cinder, and steel.

Get immediate feedback on the presence of lead before repair, restoration, or painting.

\*The Vanta handheld XRF analyzer is not HUD certified; therefore, it is not suitable for HUD LBP applications.

## Tube-Based XRF Inspections of Lead-Based Paint

- Vanta™ handheld XRF analyzers use X-ray tube sources, unlike radioactive isotope sources, which are known to be slower, fade over time, and require frequent resourcing or factory recalibrations.
- The X-ray tube output of a Vanta analyzer remains constant for testing with the same precision and speed for its entire life. It starts fast and stays fast.
- X-ray tube-based analyzers eliminate business liabilities associated with possessing hazardous radioactive isotopes.
- Vanta handheld XRF analyzers are reliable, lightweight, and ergonomically designed.
- The overall low total cost of ownership is a benefit with the Vanta handheld XRF analyzer—no resourcing, no biannual leak tests, no radioactive disposal costs, and no increased testing time with age.

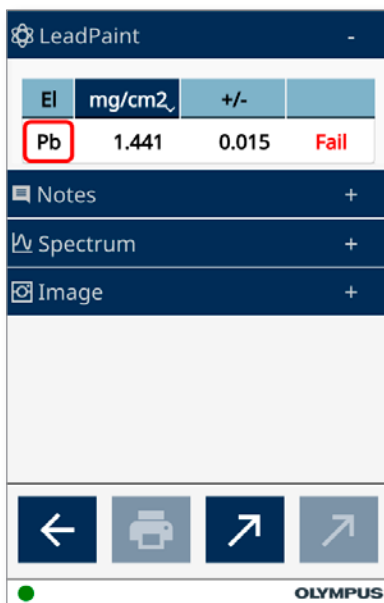
## Compliance and the Health Hazards of Lead-Based Paint

Health hazards associated with Pb in pre-1978 structures that contain lead-based paint (LBP) are well established. Regulated limits of Pb vary from country to country and even from city to city. Laboratories, while well equipped with techniques and instrumentation to measure Pb to confirm regulatory compliance, cannot supply immediate, on-the-spot results. Laboratories can also be expensive and time-consuming.

Vanta handheld XRF analyzers dramatically reduce testing times, enabling hundreds of more tests per day on varied painted surfaces. Within seconds, Vanta analyzers can detect lead and report the results as surface area concentrations or positive or negative results based on preset values (NIST standards are available for portable XRF lead paint surface analysis).

## Benefits of Vanta Handheld XRF Analyzers for Lead-Based Paint Analysis

- Reduced time and cost of testing on multiple surfaces.
- Tests can be run before construction, demolition, repair, painting, and after clean-ups.
- Accurate on-site testing with documented traceability.
- Easily tests for Pb directly on floors, walls, doors, hinges, pipes, joints, and window casings.



| El | mg/cm2 | +/-   |      |
|----|--------|-------|------|
| Pb | 1.441  | 0.015 | Fail |

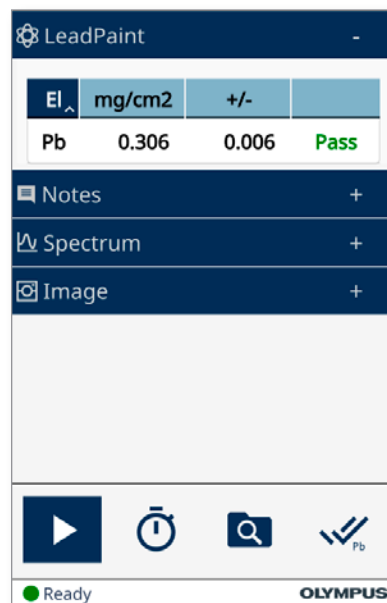
Notes +

Spectrum +

Image +

← [Printer] ↗ ↘

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| El | mg/cm2 | +/-   |      |
|----|--------|-------|------|
| Pb | 0.306  | 0.006 | Pass |

Notes +

Spectrum +

Image +

▶ [Timer] 🔍 ✓ Pb

Ready OLYMPUS



**OLYMPUS SCIENTIFIC SOLUTIONS AMERICAS is certified to ISO 9001, ISO 14001, and OHSAS 18001.**

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**OLYMPUS CORPORATION OF THE AMERICAS**  
48 Woerd Avenue, Waltham, MA 02453, USA, Tel.: (1) 781-419-3900  
110 Magellan Circle, Webster TX, 77598, USA, Tel.: (1) 281-922-9300

For inquiries - contact  
[www.olympus-ims.com/contact-us](http://www.olympus-ims.com/contact-us)

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