

Sampling Solutions for Lead Testing

Introduction

An estimated 804,000 workers in general industry and another 838,000 workers in construction are potentially exposed to lead as a result of the production, use, maintenance, recycling, and disposal of lead material and products. Exposure to lead can cause a variety of ailments, including neurological and gastrointestinal effects, anaemia, and kidney disease. OSHA established a PEL of 50 µg/m³ for an 8-hour TWA and an action level of 30 µg/m³ for workers covered by OSHA lead standards[†].



SKC offers solutions for sampling lead in workplace air and on workplace surfaces. SKC active samplers require an air sample pump to collect hazardous gases, vapours, and particulates in air; lead-specific swabs and wipes sample lead on skin and surfaces with results indicated by colour; and other wipes collect lead and other toxic material from surfaces.

[†] See www.osha.gov, Safety and Health Topics

SKC Sampling Solutions

For over 50 years, SKC has led the research, design, and manufacture of quality sampling equipment and media to aid health and safety professionals in the evaluation of occupational and environmental hazards.

SKC method-based sampling solutions for lead testing include air sample pumps and filter cassettes, and surface and dermal wipes, following agency methods and established protocols.



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Sample Collection

Active Air Sampling Solutions

Target Compound	Select Methods*	SKC Sample Collection Media and Part No.	SKC Sample Pump and Part No.	Notes
Lead	NIOSH 7082 NIOSH 7105 NIOSH 7300 NIOSH 7701 NIOSH 7702 OSHA ID 121 OSHA ID 125G OSHA ID 206	Preloaded MCE cassette 225-3-01	AirChek TOUCH 220-5000TC	
	NIOSH 7301	Preloaded MCE filter 225-3-01 cassette or preloaded PVC filter cassette 225-803		Method allows for MCE or PVC filter.
	NIOSH 7306	Preloaded Solu-CAP MCE filter cassette 225-8517		Method specifies internal capsule sampler SKC Solu-CAP.

* Other methods may apply. SKC recommends those listed.

Surface or Dermal Wipe Sampling Solutions

Target Compound	Select Methods*	SKC Sample Collection Media and Part No.	Notes
Lead	ASTM E1792 NIOSH 9102 OSHA 125G	Ghost Wipes 225-2414 with template 225-2415	
	NIOSH 9105	Full Disclosure Kit 550-001 or 550-002	Colorimetric wipe for skin or surfaces
	OSHA ID 121	Smear Tabs 225-24	
	Various	Wipe Sample Kit 225-2401A	General supplies for wipe testing for many applications.

* Other methods may apply. SKC recommends those listed.