

Sampling Guide Overview

Analyte CAS #	Recommended Media	Suggested Volume, L	Sampling Rate, LPM	LOQ, µg	Method Technique	Lab Code	Unit Cost
General Comment							
Chromium, Hexavalent Different for each compound	C-10 PVC, 37mm, 5um, 3PC, C-10	30 - 960	2	0.025	OSHA ID 215 IC	NC	\$84
	Preferred Method. Sample stability varies with exposure source monitored. Identify operation sampled (spray paint, chrome plating, welding, etc.) on Request for Analysis form. Ship overnight within 24 hours of sampling to meet all holding times. Chromium plating samples (acid environment sampling) that cannot be shipped within 24 hours of sampling should be collected using the C-43 sampler (NaOH-Treated Quartz).						
Acid Environments including Plating	C-43 Quartz, NaOH-treated, 37mm, 2PC, C-43	30 - 960	2 Max	0.025	OSHA ID215 IC	NC	\$84
	Use the sodium hydroxide-treated quartz sampler only for sampling acid environments, including plating. Sample stability varies with exposure source monitored. Samples must be analyzed within two weeks of collection.						
Welding and Other Hot Environments	C-53 PVC, 37mm, 5um, Quartz support, 2PC, C-53	30 - 960	2 Max	0.025	OSHA ID215 IC	NC	\$84
	Hot environments cause the cassettes to expand and sample can collect around the PVC onto the backup pad. In these cases, the backup pads are analyzed along with the PVC filters. Ship all samples by overnight carrier on the day of collection. Samples collected on Friday, Saturday, or Sunday can ship the following Monday. Do not perform field extraction.						
Wipe	C-10 PVC, 37mm, 5um, 3PC, C-10	100 cm2	N/A	0.025	OSHA ID 215 IC	NC	\$84
	Fold exposed side in, and transfer into vial. Identify operation sampled (spray paint, chrome plating, welding, etc.) on Request for Analysis form. Ship overnight within 24 hours of sampling to meet all holding times. Chromium plating samples (acid environments) that cannot be shipped within 24 hours of sampling should be collected using C-43 filter (NaOH-Treated Quartz).						

- ▶ **Chemical Identity**
 - Name and CAS included, for cross-reference and specificity
 - Call lab if what you need to sample isn't listed
- ▶ **Media**
 - Multiple listings may be included, each with its peculiar advantages and disadvantages (aerosol &/or vapor collection, sampling and/or analytical interferences, sensitivity differences, etc.)
 - Stability listing for unstable samplers
- ▶ **Sampling Rate**
 - Single value or range
 - Assume upper value is limit for efficient collection
 - Call the lab if you need to deviate
- ▶ **Sample Volume**
 - Typically a range
 - Assume minimum is based upon analytical sensitivity vs. TLV/PEL. Assume that maximum is based upon sampler capacity/retention or chemical stability
 - Call the lab if you need to deviate
- ▶ **Notes**
 - Included in body of guide, after sampling protocol listing
 - Describe requirements for sample handling prior to and after sampling, and shipping requirements.