

Chromium-6 in paint systems

Chromium-6 is a metal used primarily for its unique anti-corrosion properties. However, it has been determined Chromium-6 is harmful to health and environment. It is crucial to know if an object contains Chromium-6 so that adequate occupational health and safety choices can be made.

Since the 21st century, Chromium-6 in paints (or other forms of pigments/coatings) has been banned in Europe and the USA. Eurofins can provide definitive information regarding the level of Chromium-6 in paint systems by means of analyses. In this flyer, practical information about sampling, analyses and packages can be found.

Sampling to analysis

A proper analysis begins with sampling. Every factor in the process from sampling to analysis may affect the Chromium-6 level.

For the sampling of paint samples, a technical guideline has been prepared by OGOS-300-TRL. The main points are to ensure good protection, take sufficiently representative sample material, and carry out the sampling according to the guidelines.

If it is necessary to know the exact location of Chromium-6, a sampling per paint layer will be required.

ICP-MS and Chromium-6 analysis

Because Chromium-6 is highly reactive, other metals affect the amount of Chromium-6 that is found during the analysis. Therefore, Eurofins strongly recommends that in addition to the analysis of Chromium-6, an analysis is performed on the metals aluminum, zinc, lead, and iron. This will clarify if other metals have had an influence on the Chromium-6 analysis.

Accredited method

Eurofins is accredited according to NEN-EN ISO 15192 and NEN 5617. The reporting limit for Chromium-6 is 10 mg/kg dry matter.

Packaging

For each analysis, a OVE015 bag must be filled with as much material as possible. Eurofins recommends a minimum delivery of 1.0 grams.

More information

Samples can be collected at the desired location or at a depot. Eurofins' logistic services can be reached at 0800- 099 1180 or logistiek@etbnl.eurofins.com.

For additional information regarding analyses, reporting, rates, delivery times, service and more, please contact the designated contact person or the customer service during office hours.

About Eurofins Environment Testing

Eurofins Environment Testing Netherlands is part of Eurofins Scientific and your partner for environmental testing.

Our goal is to help you achieve your objectives. With efficient and qualitative analysis techniques we support your business processes. Our customer service is at your disposal with specialized knowledge and extensive experience. You can make use of our own packaging and logistics service. Our reliable couriers take care of sample transfer on site and transport the samples to the relevant laboratory the same day.

Eurofins Environment Testing Netherlands is committed to protecting the environment. With our products and services, we support the responsible use and minimization of substances harmful to humans and the planet. Examples include hormones, pesticides, dioxins and heavy metals. By reducing the usage of water, raw materials and energy, we contribute to sustainability. Our laboratories have developed special programs to minimize environmental risks, such as a safe use of chemicals and waste disposal.