



Chromium trioxide

in the manufacture of printing and embossing cylinders

Chromium trioxide plays a vital role in the chrome-plating of printing and embossing cylinders. Cylinders are generally chrome-plated after imaging to increase their resilience and durability.

REACH

In 2013, chromium trioxide (chromium(VI) oxide) was added to the authorisation list of the European Union's REACH (Registration, Evaluation, Authorisation of Chemicals) regulation, due to its hazardous material properties.

Registered User

All Janoschka production sites within the EU are registered with the European Union as downstream users according to regulations and hold the necessary authorisation for the continued use of chromium(VI) oxide.

The regulatory conditions including workplace protection and health and safety improvements are implemented and documented.

CTAC Authorization

The CTAC authorization of chromium(VI) for the rotogravure printing and embossing industry is valid until September 2024.

The EU Commission's vote on the ChromeXtend authorization application for a 12-year review period until 2032 by K. Walter is expected in 4th quarter 2022.

Alternatives

A substitution to the actual Cr(VI) process is HelioChrome NEO Cr(III) electrolyte by K. Walter.

Present chromium-plating-free research projects in the market are:

- **DYNASURF Concept** by Continental together with Janoschka and other partners
- **HELIO PEARL** by K. Walter
- **ECOGRAV** by Rossini