



Chromium trioxide & PFAS risk assessment of possible bans within the EU – for the gravure and embossing industry (17.07.2023)

Timeline for ChromeXtend Authorization and PFAS restriction under EU REACH



Note: PFAS is used as wetting agent for chromium trioxide electrolytes. Compliance with ChromeXtend authorization standards may not be possible without PFAS.

ChromeXtend

CTAC authorization annulled 04/2023

ChromeXtend - K.Walter authorization valid until Dec. 2032 EU authorization imminent (expected Q4?)

PFAS (used as a wetting agent in Cr plating) may be banned in 2027 with a potential derogation

2024 to Dec. 2032 period for substitution of chromium trioxide based technologies by other chromium trioxide & PFAS free Cr plating technology: HelioChrome[®] NEO

HelioChrome[®] NEO

THE FUTURE AND SUSTAINABLE CHROME PLATING PROCESS FOR ROTOGRAVURE

Now ready & available!

(for packaging-size cylinders)

HelioChrome® NEO

- ChromeVI free
- ▷ PFAS free
- Very low risk for workers & environment
- > 30% less energy consumption
- > 50% less water consumption
- No regulatory costs (ECHA/workers monitoring)
- Fully digital process supervision
- Easy integration into existing process



HelioChrome[®] NEO HelioChrome[®] NEO machine / Chrome nugget dissolution cell

Greener and better technology



Our solutions!



ChromeXtend Use of Chromium trioxide until Dec 2032 EU authorization imminent (expected Q4 2023)

HelioChrome[®] NEO The Future of hard chrome plating Now available in Europe (for packaging-size cylinders)

The new polymer based gravure printing form for short runs (under development)

Newest information / please contact us!

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https://www.linkedin.com/company/k-walter-plating-and-processes/



Participate in ERA digital and live events



also to find on LinkedIn



What is your Chrome strategy?



The new gravure printing-form

POLYMERIC - LASER ENGRAVE ABLE - MONOLAYER





THE CARACTERISTICS

COMPATIBLE WITH ALL EXISTING CYLINDERS AND ROTOGRAVURE PRESSES

- > All existing steel, aluminum and copper cylinders can still be used
- No modifications to printing presses needed
- > Open technology for alternative base cylinder structures

PROCESS FACTS

- No license for plating required
- No hazardous exhaust / no chemically polluted waste-water
- > Approx. 80% reduction of energy cost
- > Tremendous reduction of CO2 footprint







THE ADVANTAGES OF DIRECT LASER IMAGING

ONLY DIRECT LASER OFFERS

- Unlimited variety of cell shapes / specific cell shape for a specific color/ink
- Best possible adaptation characteristics for 7c extended color gamut
- No saw-tooth effect / perfect line work
- > 3D image setter with basically zero limitations
- ► HD Imaging Quality





THE STATUS OF THE DEVELOPMENT PROJECT

- ▶ Test installation @ K. Walter
- Several successful print runs at WuH and HDM
- Run stability of 100,000 meters
- Industrialization of the complete process
- Frequent print runs at HDM Stuttgart with different inks & substrates
- Continuous production of test cylinders





