

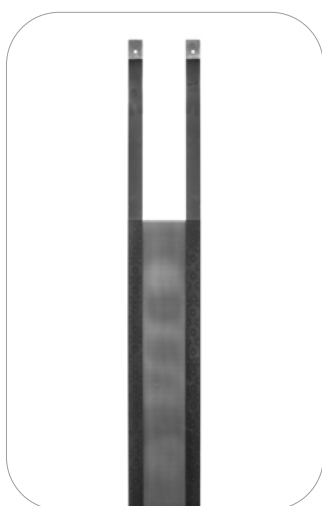


Version: 10, June 2026



PLATINODE® Cr3

for decorative chrome(III) process



Insoluble MMO Anodes essential for Chrome(III)Process

Chrome-plated elements are mostly used in the automobile industry but also for various other decorative applications. Previously, chrome(VI) processes were primarily used. Due to today's environmental and safety concerns as well as changes to the law, chrome(III) processes have already been in use for a few years. And they are under constant development.

In order to retain the long-term function of the electrolyte and therefore the quality of the coating as the chrome separates from the trivalent solution, the use of insoluble MMO anodes with special layer setup is essential.

Our PLATINODE® Cr3 anode system offers a solution that can use this coating layering to significantly reduce oxidization from Cr3+ to Cr6+. Even when used continuously, chrome(VI) concentrations do not rise to disruptive levels.

Our anodes have been tested and approved by renowned electrolyte producers and endcustomers. Thanks to optimized production methods, it is possible to offer short delivery times.



Advantages

- No disruptive Cr6 formation on anodes
- Tested and specified by renowned electrolyte producers
- Shortest delivery times possible
- Cutting edges and power supply also coated
- Advice, planning and further service on site
- Cost reductions thanks to longer electrolyte lifetime



Applications

- Chrome(III) process e.g. for decorative automotive parts or furnishings (chrome handles, hooks, mounting bracket etc.)

Technical Specifications

Operating conditions		Coating characteristic	
Anodic current density (equipment-dependent)	0 - 30 A/dm ² depending on expanded metal type	Coating	Ir mixed oxide
Current type	Direct current, PP, RPP	Color of deposit	black
Contacting	clips, screws	Condition	microporous
pH value	Acidic to alkaline	Layer weight	20 - 40 g/m ² IrO ₂ proportion
Temperature	RT - 80 °C		

Your Contact

Do you have a specific question or would you like a no-obligation quote calculation? Our specialist will be happy to help you with any technical questions you might have.



Christian Kurrle
Sales Manager Electrocatalytic Electrodes

Mail: christian.kurrle@eu.umicore.com
Phone: +49 (0) 7171 607 - 167

