



CURTICROM BASIC CHROME SULFATE

 **FERRO**
Where innovation
delivers performance™

WWW.FERRO.COM

ABOUT

FERRO PIGMENTS

Ferro Pigments is a global leader in CICPs and Ultramarines and other pigment families, including high-performance Bismuth Vanadates, Transparent and Opaque Iron Oxides and a broad range of organic Pigments.

We develop Color Solutions for the plastics, coatings, inks, construction, cosmetics, artists' colors, and leather markets, as well as other industrial markets.

More at
www.ferro.com/pigments-and-dispersions



FERRO'S HIGH QUALITY BASIC CHROME SULFATE AND SOLUTIONS FOR EACH COLOR SPACE

Why does Ferro produce Basic Chrome Sulfate?

The production of **Basic Chrome Sulfate** is the result of applying a specific technology in the manufacturing process of Ultramarine pigments. Ferro, a well-recognized worldwide leading producer of Ultramarine Blue, decided to create Curticrom, Basic Chrome Sulfate, more than 30 years ago to minimize the environmental impact and it has been improving its production in a cleaner and more effective way since then.

Over these years we have also been developing proprietary technology that has led us to create a product that is highly valued in the market for its performance, as it fulfils product specifications, and more notably, absence of Cr(VI), all the while commercializing it with more flexible and efficient delivery.

What is Basic Chrome Sulfate & what are its most common applications?

With the chemical formula $\text{Cr}_2(\text{OH})_2(\text{SO}_4)_2\text{Na}_2\text{SO}_4(\text{H}_2\text{O})_6$, it is commonly used in *chrome tanning, retanning products and as a source of chromium in **chrome plating processes on metal and plastic surface.

*Process of transforming hide to leather

** Technique of electroplating for deposition of a thin layer of chromium onto a metal or plastic object

What kinds of Basic Chrome Sulfate do we offer?

Curticrom, our Basic Chrome sulfate is currently available in two different formats: Powder & Liquid solution. As a tanning agent, Curticrom shows excellent penetration capabilities and guarantees a high-quality wet blue. It also provides uniform chromium oxide distribution on the cross section and the grain of leather. In chrome plating, Curticrom is a cost-effective and Cr(VI)-free source of chrome. Powder is the most stable form and it is easy to transport and store, making it the most broadly used version.

CURTICROM STANDARD GRADE CHROME SULFATE POWDER PROPERTIES

CHARACTERISTICS	PROPERTIES
% Cr_2O_3	25-27
Schorlemmer Basicity (%)	31-35
pH (solution, 10%)	2.0-3.0
Insoluble Material (%)	0.00-0.50

PHISICAL PROPERTIES

- Fine free-flowing, dark green color
- Good penetration capacities
- Chromium (VI) free
- Stable basicity and pH
- High chromium content
- Easy to dissolve in water
- Low amount of insoluble materials

Available packaging: 25 kg bag & Big Bags

CURTICROM 13/33 STANDARD GRADE CHROME SULFATE LIQUID PROPERTIES

CHARACTERISTICS	PROPERTIES
% Cr_2O_3	12.5-13.5
Schorlemmer Basicity (%)	31-35
pH (solution, 10%)	2.0-3.0

PHISICAL PROPERTIES

- Green liquid solution
- Good penetration capacities
- Chromium (VI)-free
- Stable basicity and pH
- High chromium content
- Low amount of insoluble materials

Available packaging: Tanks

CURTICROM ADVANTAGES

- High-quality wet blue guarantee
- Low amount of insoluble materials
- Easy to dissolve in water (powder format)
- High quality control
- Excellent penetration capabilities
- Chromium (VI)-free
- Stable basicity and pH
- REACH-approved

How can we ensure our Basic Chrome Sulfate does not contain Cr(VI)?

To make sure our Basic Chrome Sulfate does not contain Cr(VI), at Ferro we collaborate with accredited centers* that specialize in leather tanning. The absence of hexavalent chromium is controlled according to the official ISO test method **19071**.

*[FILK](https://www.filkfreiberg.de/en.html) German accredited laboratory specialized in leather and plastic sheeting --><https://www.filkfreiberg.de/en.html>

*[A3 Leather Innovation Center](https://www.a3center.cat) Reserch group at the University of Lleida (UdL) specialized in the leather production chain --><https://www.a3center.cat>

Contact us for more information!