

# TRILYTE® Flash SF

Bright, white, trivalent decorative chromium process



**TRILYTE Flash SF** is a REACH compliant, highly corrosion resistant trivalent chromium plating process, used to deposit a white bright decorative chromium layer over bright or satin nickel deposits. It is the direct replacement for solutions based on hexavalent chromium.

When used in combination with MacDermid Enthone satin or bright nickel processes and our **DUR NI®** microporous noble nickel, **TRILYTE Flash SF** provides excellent **CASS** performance, which exceeds all current automotive standards. The process also exhibits good resistance to attack from calcium chloride containing salts.

The **TRILYTE Flash SF** deposit color is consistent over all current density ranges. The process is tolerant to current interruptions, provides excellent uniform metal distribution and reduces or eliminates burning when compared to conventional hexavalent chromium deposits.

## TRILYTE Flash SF, unrivaled innovation

- Exceeds 96 hours of CASS testing
- Stable and reproducible white color
- Sulfate based trivalent chromium solution
- Color similar to hexavalent chromium deposit



# TRILYTE® Flash SF

Unrivaled innovation



## TRILYTE Flash SF performance

Basis: sulfate; bright.

With post-dip (Hexavalent chromium-free)	
NSS	240 hours
CASS	96 hours

TRILYTE Flash SF is approved by leading global automotive manufacturers and meets the stringent performance requirements as listed above.

- Color values measured under production conditions:
  - L\* : 80 - 83
  - a\* : -0.5 - 0.7
  - b\* : 0.5 - 1.5
- Plating speed: Up to 0.1 µm in 3 minutes



## TRILYTE Flash SF, unrivaled innovation

Feature	Benefit
<ul style="list-style-type: none"><li>• Uniform, bright and stable deposit</li></ul>	<ul style="list-style-type: none"><li>• Meets design demand for alternatives to hexavalent systems</li><li>• Uniform color on complex part geometries</li><li>• Easy color match over time</li></ul>
<ul style="list-style-type: none"><li>• Trivalent chromium with low solution concentration</li></ul>	<ul style="list-style-type: none"><li>• Eliminates exposure to hexavalent chromium</li><li>• Reduced waste water treatment costs</li></ul>
<ul style="list-style-type: none"><li>• Passes more than 96 hours CASS when used in conjunction with multilayer nickel systems</li></ul>	<ul style="list-style-type: none"><li>• End-user can expand their position to meet more stringent automotive requirements</li></ul>
<ul style="list-style-type: none"><li>• Simple liquid additive system</li></ul>	<ul style="list-style-type: none"><li>• Maintenance additives can be automatically dosed for ease of solution control</li></ul>

### \*Post-treatment

Designed especially for use with TRILYTE® processes, TRILYTE CP 3000 is an environmentally-compliant chromium-free post dip for electroplated trivalent chromium deposits. It significantly improves the corrosion resistance of the decorative coating system.

Performance in standard corrosion tests such as NSS and CASS is improved by applying TRILYTE CP 3000 on top of the electroplated chromium layers without affecting part appearance.



For more information, please contact us at:

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