

TRILYTE® Flash CL

Bright, white, trivalent decorative chromium process



TRILYTE Flash CL is an environmentally compliant trivalent chromium plating process that is used to deposit a white bright decorative chromium layer over bright or satin nickel deposits. For automotive applications, the process is highly tolerant to attack from calcium chloride containing salts.

When used in combination with MacDermid Enthone satin or bright nickel processes and our **DUR NI®** microporous noble nickel, **TRILYTE Flash CL** provides excellent **CASS** performance.

The **TRILYTE Flash CL** 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 CL, unrivaled innovation

- Graphite anodes system
- Stable operating solution
- Exceeds 80 hours of CASS testing
- Stable and reproducible white color



TRILYTE® Flash CL

Unrivaled innovation



TRILYTE Flash CL performance

Basis: chloride; bright.

With Post-Dip (Hexavalent chromium-free)	
NSS	> 400 h
CASS	> 80 h
Russian Mud	> 336 h

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

Approvals include: PSA, Renault, Nissan, Honda, GM

- Color values measured under production conditions:
 - L* : 78 - 80
 - a* : -0.2 - 0
 - b* : 0.5 - 1.5
- Plating speed: 3 min = 0.2 - 0.3µm



TRILYTE Flash CL, creates value

Feature	Benefit
<ul style="list-style-type: none">• Uniform, bright and stable deposit	<ul style="list-style-type: none">• Meets design demand for alternatives to hexavalent systems• Uniform color on complex part geometries• Easy color match over time
<ul style="list-style-type: none">• Trivalent chromium with low solution concentration	<ul style="list-style-type: none">• Eliminates exposure to hexavalent chromium• Reduced waste water treatment costs
<ul style="list-style-type: none">• Graphite anode systems	<ul style="list-style-type: none">• Avoids the high start-up and maintenance costs associated with the use of MOX (iridium oxide) anodes
<ul style="list-style-type: none">• Passes more than 80 hours CASS and 336 h Russian Mud test when used in conjunction with multilayer nickel systems	<ul style="list-style-type: none">• End-user can expand their position to meet more stringent automotive requirements
<ul style="list-style-type: none">• High plating speed	<ul style="list-style-type: none">• Similar to hexavalent systems; no additional tank capacity needed

*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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