

TriPass Systems

Anti-Corrosion Coatings

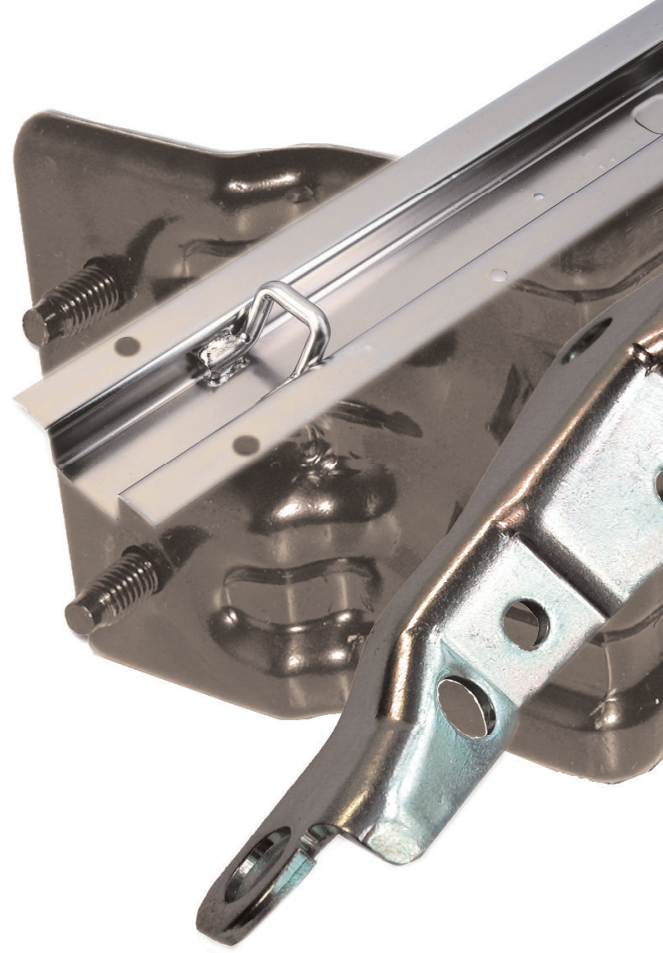
The #1 Trivalent Passivation Systems. Worldwide.

MacDermid TriPass Systems are a complete range of hexavalent chrome-free products. Available worldwide that meet all zinc and zinc alloy passivation requirements. Extremely resistant to thermal shock, the entire family can be used in application areas where conventional products simply do not perform.

Our **TriPass Systems** meet all EOLV Directives through their use of trivalent chromium and pass all automotive industry test requirements.

The perfect drop-in replacement for hex-based offerings, they have all been rigorously tested and used in some of the world's largest, full scale industrial conditions.

For the only complete line of hex-free passivation systems that meet strict environmental regulations, count on the company that says "Yes We Can." MacDermid.



Key Features

- The only complete line of hex chrome alternatives that meet EOLV, ROHS and WEEE Directives
- Approved or accepted for all major automotive specifications
- Extremely resistant to thermal shock
- Production proven at the world's largest automotive surface finishers
- Superior corrosion protection and film uniformity

YES WE CANSM

 **MacDermid**
Industrial Solutions

TriPass Systems

Anti-Corrosion Coatings

The Superior Alternative to Hex Chrome. From One Global Supplier.

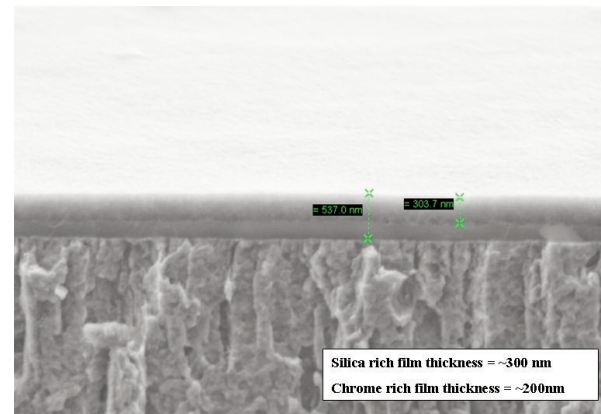
With MacDermid TriPass Systems, applicators and end users worldwide can utilize the optimal replacement for hex-chrome passivation that already meet **EOLV, ROHS** and **WEEE** Directives. Tested and approved by leading automotive companies in Europe, America and Asia, and used exclusively in our ZinKlad program of Approved Applicators, TriPass Systems are production proven solutions that instantly improve protection and performance for all zinc and zinc alloy surfaces.

Available in a range of finishes, including “thin film” blue brite passivates, “thick film” iridescent passivates and black TriPass delivers superior heat resistance, corrosion protection, ease of use and exceptional operating tolerance. Which is why we have received specification compliance from companies including Ford, General Motors, Chrysler, Honda, VW Audi, Toyota, Delphi, Dana and TRW. And the list keeps growing every day.

TriPass ELV Process			
	Blue/Clear (Thin Film)	Iridescent (Thick Film)	Black
Zinc	ELV CorroBlue	ELV 1000/2000/1500LT	ELV 5252
Zinc-Iron	ELV 2000	ELV 2000/1500LT	ELV 5252
Zinc-Nickel	ELV 3000/3000G/3100	ELV 2000	ELV 5100
Mechancial Zinc	ELV 2000	ELV 2000/ELV MP	ELV TriBlack

TriPass meets Nanotechnology.

The **TriPass ELV 6000** solution contains silica base colloidal particles in nanometer scale. The stable colloids are co-deposited into the passivate film resulting in high abrasion and temperature resistance. Therefore TriPass ELV 6000 passivate films protects zinc coatings even after handling and heat treatment operations. After longer passivation times, additional silicate film is formed (see picture).



It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal, trust the company that says “Yes We Can.”



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