

## **Trivalent Chromium Pretreatments for Defense Applications**

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Aluminum pretreatments from aqueous compositions based on trivalent chromium are currently being demonstrated in the field on a variety of defense platforms, including the Navy's F/A-18C/D Hornet, S-3 Viking, and CH-46 Sea Knight, as well as the Marines' Advanced Amphibious Assault Vehicle (AAAV). The trivalent chromium pretreatment (TCP) shows excellent all-around performance from a technical and process point of view and is the best available candidate for a "drop-in" replacement for chromate conversion coatings on a variety of substrates and coating systems. Field test data to date and processing details will be discussed, as well as life cycle impact of implementing TCP.

**Paper not available for publication.**

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