



AMMTIAC Success Story

AMMTIAC Develops Guidebook for Corrosion-resistant Materials Selection

<http://ammtiac.alionscience.com>

Customer:	Air Force Research Laboratory, Thermal Sciences and Materials Branch
Challenge:	For decades, the DoD has protected weapon systems from corrosion using hexavalent chrome-laden compounds (CrVI)-the industry 'gold standard' for high-performance systems in extreme service environments. Unfortunately, CrVI is a carcinogen, posing risks to workers and the environment. Given these dangers, the DoD issued policies restricting the use of CrVI. This left Acquisition Program Managers (PMs) with the task of identifying suitable alternatives, with little guidance or field data to help with their decision process.
Approach:	AMMTIAC was asked to develop a solution based on its expertise in corrosion mitigation and its experience providing technical and programmatic guidance. AMMTIAC collected information from a variety of government and industry sources, leveraged the knowledge of several recognized subject matter experts, and developed a Program Management Guidebook to CrVI. The Guidebook provides PMs with a synopsis of existing policies and regulations and a decision-making tool to help with the assessment of suitable alternative compounds.
Value:	AMMTIAC's CrVI Guidebook is a comprehensive body of knowledge that helps PMs move materials and designs through the acquisition process at a considerably faster rate. It provides the technical information, regulatory insight, and relevant field data needed to make informed decisions when formulating corrosion prevention and control plans for new military systems and infrastructure. The vast amount of testing data included in the Guidebook allows PMs to assess the viability of alternative materials, saving both time and money.

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