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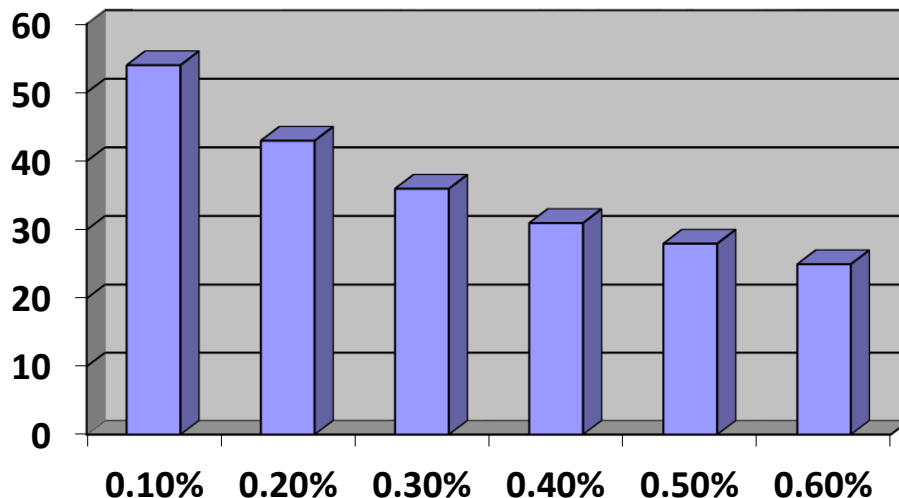
HCA FUME CONTROL 8.1

Non-PFOS Fume Suppressant for Chrome Solutions

Introduction

Hunter Chemical's HCA Non-PFOS Fume Control is designed to help meet the requirements of the EPA Chromium Plating NESHAP (National Emission Standards for Hazardous Air Pollutants) published on September 19, 2012. HCA-8.1 is designed for use in hard chrome and decorative chrome applications, as well as in chromic acid anodizing. It will enable conformance with the Surface Tension limits in the Rule, which are 33 dynes/cm (tensiometer) and 40 dynes/cm (stalagmometer) as of September, 2014. Further, it will lower chromium emissions and, in conjunction with other available controls, facilitate compliance with the lowered emission limits (also in effect as of September, 2014.) Laboratory data confirming performance results for HCA-8.1 are available upon request.

**Surface Tension (dynes/cm, stalagmometer) v.
Concentration of HCA 8.1**





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Initial Charge and Maintenance Additions of HCA Non-PFOS Fume Control

To maintain surface tension as required, initial charge will be approximately three (3) gallons per 1000 gallons working solution. It is recommended that initial charge be performed incrementally, with frequent testing of surface tension of the bath, and observation of amount of foam build-up. Field experience suggests that HCA-8.1 is compatible with other non-PFOS fume suppressants, and conversions should be performed with lower than customary dosing, until relative performance is understood.

Maintenance additions will vary, and will be determined by factors such as drag-out, presence of bath contaminants, and rate of plating production. Expected rate of maintenance additions is 4 – 6 fluid oz. (120 – 180 ml) per 10,000 amp-hours. It is recommended that the frequency of checking of surface tension be increased, when compared with testing frequency when using PFOS-based fume suppressants.

Product Benefits:

- Product reduces surface tension, which aids in limiting emissions and in meeting OSHA / EPA requirements.
- Minimization of chrome fumes will lead to longer equipment life and reduced scrubber maintenance.
- Formulation is stable in chromic acid and does not affect trivalent chrome level.

Safety and Handling

HCA Non-PFOS Fume Control is not considered a hazardous material. However, it is used in conjunction with hazardous materials in settings that contain high concentrations of chromic or sulfuric acid, so extreme care should be used. Read the Material Safety Data Sheet for HCA Non-PFOS Fume Control before use.

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