

E-Mist NF

Fluoride-Free Bio-degradable Mist Suppressant for Hex Chrome

E-Mist NF is a special blend of surfactants which do not contain PFOA, PFOS or PFOS related components. **E-Mist NF** uses halogen-free chemistry. **E-Mist NF** is utilized in hexavalent chrome plating solutions to reduce their surface tension. **E-Mist NF** develops a dense foam layer of 2-3 inches (5-7.5 cm) which significantly reduces fuming and misting. A one-inch (2.5 cm) foam blanket keeps the surface tension at about 35 to 36 dynes/cm.

E-Mist NF is a clear amber-colored free flowing liquid product. Conversion from older versions is easy—there is no transition process, simply disregard the older version of mist suppressant and start adding **E-Mist NF**.

USE RECOMMENDATIONS

E-Mist NF is used for lowering the surface tension of chrome plating or chrome anodizing solutions. Normally it is added at the rate of 10 gallons per 1000 gallons of the solution. This is equivalent to 1.0% by volume and the resulting surface tension will be 35 dynes/cm.

An additional 1% by volume of **E-Mist NF** will lower the surface tension to 25 dynes/cm.

SOLUTION MAINTENANCE

E-Mist NF is consumed by drag-out, high temperature, electrolysis and degradation by chromic acid. Use a Tensiometer or a Stalagmometer to measure the surface tension and add **E-Mist NF** as necessary to maintain the desired surface tension. An amp-hour feeder is highly recommended for consistent surface tension numbers. At 150°F **E-Mist NF** will break down. In a decorative chrome plating solution, the **E-Mist NF** is replenished at a rate of approximately 1 gallon per 14,000-to-18,000-amp hours. In a hard chrome application, the consumption can be up to double this amount due to oxidation at higher bath temperatures.

Chrome tanks should be pumped out and given anode area maintenance 1-2 times a year. Porous pots can be utilized to control the trivalent chrome levels, which should be monitored on a regular basis. Mechanical agitation is preferred as **E-Mist NF** is distributed homogenously and requires a uniform temperature which mechanical agitation can more easily provide. Any air agitation results in undesired foaming.

IMPORTANT NOTICE! For Industrial Use Only

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: seller's and manufacturer's only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential, arising out of the use or the inability to use the product.**

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