

## MYSTOLENE ALT CONC

### Leather Auxiliary Product Data

#### Composition

Aqueous solution of Basic Aluminium Chloride. (Aluminium chlorhydroxide)

Typical properties:

Al<sub>2</sub>O<sub>3</sub> 23.5%

Chlorides 8.2%

Sulphates NIL

Density (15°C) 1.34

pH (10% Soln) 4 approx.

This information does not constitute a specification.

#### Description

Clear, colourless liquid.

Character: Cationic

#### Suggested Uses

Mystolene ALT Conc can be used alone to produce a white tannage but is more generally used in combination with chrome either as a pretannage or during retannage.

The compatibility of Mystolene ALT Conc with the various fatliquors and other auxiliaries used in processing should be established in advance. Mystolene ALT Conc is compatible with most nonionic and cationic materials but may precipitate anionic types.

#### **Chrome Leather Pretannage**

Good results have been achieved in bulk by adding one third of the total tan offer as Mystolene ALT Conc into the pickle float (approx. pH 2.8). This should be run for a minimum of 60 minutes, followed by the second "third" as 33% basic 25% Cr<sub>2</sub>O<sub>3</sub> powder. After approx. 2 hours or until penetration is achieved, the final "third" can be added as 42% basic chrome powder. If the tannage is then run 4 hours and basified as usual to approx. 3.8 pH a positive boil test should be seen. Self basifying chrome powder can form the last addition, or a slowly soluble basification product can be used to advantage. However, the technique may need to be varied to suit local conditions. Following the above general method, the following advantages have been seen.

- 1) Smoother, finer grain characteristics.
- 2) A somewhat rounder feel to the subsequent leather.
- 3) Eliminates overloading of the grain with chrome during basification giving a slightly higher chrome content in the centre section of the skin.
- 4) The total tan cost can be lower than a straight chrome tannage.
- 5) Excellent chrome exhaustion resulting in lower chrome in the effluent has been seen in many cases.

#### **Retannage**

When used as a retanning material, Mystolene ALT Conc has a tendency to tighten the grain. It is, however, necessary to add the product under acid conditions (p 3.0 -3.5). After allowing sufficient running time for grain and flesh penetration (say 60 minutes), at a temperature of 35°C - 40°C, neutralisation up to pH 4.0 - 4.5 should produce the necessary fixation after which the goods can be washed up to temperature for dyeing and fatliquoring.



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This same technique may be used to impart improved buffing and dyeing properties on suede leathers.

If full dye penetration is required, we suggest a treatment before dyeing with an anionic syntan or mordanting with a vegetable tanning material to give an anionic base for the dye to penetrate.

Excellent dye fixation has been achieved on chrome and vegetable tanned leather when Mystolene ALT Conc is given after the final acid bath. It can also be added with the first formic acid in "sandwich" dyeing to achieve better colour yield on full shades.

#### ***Vegetable Tanned Leather***

It has been found that retanning vegetable leather with Mystolene ALT Conc has given improved characteristics and dyeing properties in the resulting leather, together with a higher shrinkage temperature. Conditions and percentages are best determined by experiment due to a wide variety of vegetable materials available and the required properties of the leather.

#### **Handling**

Mystolene ALT Conc presents no particular toxic hazard. It is, however acidic in nature and care should be taken to avoid splashes in the eyes. In case of eye contamination, irrigate with plenty of clean water. Observe normal industrial hygiene procedures.

For further information see product Safety Data Sheet.