

# Technical Bulletin

## SofTechs 4110

### DESCRIPTION

**SofTechs 4110** is a concentrated light tan wax-like solid softener base. It is a blend of cationic quaternary fatty acid amides and emulsifiers that are dispersible in hot water.

**SofTechs 4110** provides a very soft and silky type hand. The product is considered low yellowing. It is highly recommended for use as a water-dispersed softener for indigo denim garments. It is also recommended for softening fabrics of acrylic and nylon.

### BENEFITS

**SofTechs 4110** has the following beneficial characteristics.

- Highly Concentrated
- Economical to Use
- Lends Very Soft & Silky Hand
- Ideal for Indigo Denim Garments
- Recommended for Nylon & Acrylic
- Considered Low Yellowing

### TYPICAL PROPERTIES

Color	Light Tan
Texture	Wax-like Solid
PH	About 4.75
Melt Point	About 60°C
Solids	About 98%

### FORMULATION

**SofTechs 4110** must be formulated prior to use. The follow is a typical water dispersion procedure.

Water	82.00%
56% Acetic Acid	00.50%
<b>SofTechs 4110</b>	17.50%
Biocide	Trace

### PROCEDURE

Charge water and acetic acid and begin mixing. Increase temperature to 60°C. Add pre-melted **SofTechs 4110** (pre-melt in hot room or with drum heater belts). Increase temperature to 85°C. Hold at this temperature until dispersion is smooth. Then hold an additional 30-60 minutes. Allow to cool while stirring. Once cool, add the biocide and then package.

### APPLICATION

General dosage rates are as follows for 18% solids water dispersions of **SofTechs 4110**.

Fabric	3.0 – 6.0% OWF
Garments	2.0 – 5.0% OWG
Denim	3.0 – 6.0% OWG

The product is optimally effective at ph 4.5 - 5.5.

### STORAGE

**SofTechs 4110** should be stored in a cool, dry and well-ventilated area.

### HANDLING

Please refer to the Material Safety Data Sheet for details.

### PACKAGING

**SofTechs 4110** is available in 400 lb steel open head drums.

Date Established: 08/26/02  
Date Revised: 07/21/04

The information contained in this bulletin is to the best of our knowledge, true and accurate. This information is offered as a general guide to facilitate experimentation as to its suitability to the local plant environment, but neither an express or implied warranty of merchantability of the above mentioned product for particular use. American Textile, LLC make no guarantee of results and assume no obligation or liability whatsoever in connection with this information. This information is neither a license to operate under, nor is it intended to suggest infringement of any patent rights.