

**CHEMOTEX Děčín a.s.**

Tovární 63

407 11 Děčín XXXII - Boletice n. L.

Czech Republic

**Tel: +420-412-709 222****Fax: +420-412-547 200****E-mail: chemotex@chemotex.cz****www.chemotex.cz****ALTAMIN T****TECHNICAL DATA SHEET****TL 581/2010**

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**Product characteristics**

Fatty acids, C10-20 and unsaturated C16-18, reaction products with triethanolamine, di-Me sulfate-quaternized

**Use**

**ALTAMIN T** is concentrated and highly effective non-silicon softening and antistatic agent for final adjustment of washable fabrics. Its use improves the materials feel, softness, absorbability and sewing capability of fabrics in ready-to-wear processes. In bright colours increases brilliance and colour stability. It is also used as the basic raw material for softening of household fabric conditioners products.

**Product features**

**ALTAMIN T** is a white to yellowish paste of cationic character. It is miscible with hot and cold water.

- Applicable to both natural and synthetic materials
- Excellent miscibility with warm (40 °C) and cold water in any proportion
- Excellent stability of the prepared bath
- Stability in neutral and acidic solutions
- Solutions are practically unfoaming
- Excellent softening and antistatic effect
- Positively influences the stability of the wet paint substantive
- Not debase the mechanical properties of treated fabrics
- Minimal impact on the whiteness or color shade
- The products do not gain unpleasant "fishy" odour not even after storage in airtight containers
- Easy biodegradability

**ALTAMIN T** must comply with these quality signs:

Quality sign	Value	Methodology of setting
Dry matter content (%)	minimally 88	PN-ZM 581/2010
pH of 5% dispersion	2,5 up to 5,0	PN-ZM 581/2010
acid number (mg KOH/g)	maximally 20	PN-ZM 581/2010

**Product manufacturing**

**USE for manufacturer of softening products for small retail packaging:**

**Formulation** (in weight units)

	<b>Common product</b>	<b>Concentrate</b>	<b>Superconcentrate</b>
	Active substance= 5 %	Active substance = 15 %	Active substance = 20 %

ALTAMIN T	5,6	16,7	22,2
MgCl <sub>2</sub> .6H <sub>2</sub> O (20%)		0,6	1,0
Fragrance	0,3	0,9	1,2
Colour (o/oo)	1,7	5,1	6,8
Preservative	By type	By type	By type
Deionized water	92,4	76,7	68,8
Technology	a)	b)	b)

Product characteristics can be further modified by additives of other non-ionic and amphoteric components (surface active substances, silicone, PE and paraffin micro-emulsion, etc.). We recommend testing the modification always in advance.

### **Technology**

At the process **a)** deionised water is preheated to 30 °C, dyestuff is added and **ALTAMIN T**, preheated to 45 °C is being stirred for about 20 minutes, the temperature is kept to 30 °C. Lastly, fragrance as well as preservative and magnesium chloride are added (if required for viscosity enhancement) and is being stirred for next about 15 minutes. Afterwards, it is poised for filling into containers.

At the process **b)** deionised water is preheated to 40 °C, dyestuff as well as ALTAMIN T, preheated to 45 °C and magnesium chloride are added and being stirred for 20 minutes during contemporary cooling by about 0,5 °C per minute. Fragrance and preservative are added and after 15 minutes of stirring and cooling down to about 25 °C, it is ready to be filled into containers.

### **Packing and storage**

**ALTAMIN T** is usually supplied in plastic cans of 25 litres or 50 litres, or in other suitable pre-agreed containers. According to customer's requirement IBC or 200-litre metallic drum with PE inset can be chosen. It is stored in sealed containers. It must be protected from the climatic influences. Do not store in direct sunlight not even close to heat sources. Recommended storage temperature is within +5 to +25 °C.

### **Transport**

**ALTAMIN T** is transported in covered transport means in accordance with the ADR/RID regulations.

### **Warranty**

If the product is transported and stored according to the above mentioned conditions, the warranty is 6 months from the date of stock-out.

### **Note**

Data about the product characteristics and its manufacturing were acquired by laboratory measurements and application tests. This technical sheet can only give a legal advice without any obligation. The manufacturing of the product must be adjusted to the specific conditions.