

CHEMOTEX Děčín a.s. (JsC)

Děčín XXXII – Boletice nad Labem 63
407 11 Děčín
Czech Republic

Tel: +420-412-547 461

Fax: +420-412-547 200

E-mail: chemotex@chemotex.cz

www.chemotex.cz

REFAKTAN EBV**TECHNICAL SHEET****TL 519/2009**

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Product characteristics

Aqueous solution of anionic and non-ionic surfactants. Its characteristic features are high wettability and good dispergation and emulsifying properties.

Use

REFAKTAN EBV is used in the textile industry for continuous dyeing of wool and PAD, for spraying of wool yarn and continuous dyeing of cellulose materials.

Product properties

REFAKTAN EBV is a yellowish liquid of an anionic character.

- It increases solubility (dispersibility) of dyes
- It improves diffusion of the dye inside the fiber
- It accelerates dye fixation on the fiber
- It improves utilization of the dyeing bath
- It facilitates washing after dyeing
- It features equalization effects
- Efficient in the pH range of 2 to 12
- Stable and effective in hard water

REFAKTAN EBV must comply with the following quality characteristics:

Quality characteristic	Value	Measuring method
pH of a 1% solution	6.5 to 8.5	PN-ZM 519/2009
Dry matter in %	min. 35 %	PN-ZM 519/2009

Product processing**Continuous dyeing**

Quality of the wool material, especially good spinnability is maintained. Its main advantage is a short ageing time. Milder processing conditions are enabled by the use of more efficient auxiliary preparations with a more versatile effect.

- **Continuous dyeing of combed wool.**

Acidic 2:1 and 1:1 metal-complex dyes – Foulard process, ageing, washing drying.

The padding solution contains:

REFAKTAN EBV	15 to 35 g/liter
Thickener	5 to 12 g/liter
Acetic acid 60% (or possibly formic acid)	15 to 25 g/liter
Dye	as necessary

Well-solved dye is mixed with the thickener at a temperature of 90 to 95 °C, the solution is cooled down to 50 °C, **REFAKTAN EBV** is added and the mixture is stirred for 10 to 15 minutes. After that, acetic acid is added. This solution is used to pad the material in a Foulard machine (squeezing 100%), which is subsequently aged for 10 to 30 minutes with saturated steam. The time can be extended depending on the type of used dye and the required color shade. This is followed by washing and drying. **REFAKTAN EBV** is usually sufficient to remove not fixed dye and thickener during subsequent washing. For saturated colors ALMIPAL ABA is added.

➤ **Wool yarn spraying**

Acidic, metal-complex dyes.

REFAKTANT EBV is dosed into the dyeing bath containing a wetting agent, defoaming agent, thickener, acetic acid etc. in the quantity of 3 to 5 % (depending on the dyeing technique and used yarn).

The "dyed" material is aged with saturated steam (fixation) having a temperature of 95 to 98 °C for 45 to 60 minutes. This is followed by washing and drying.

➤ **Semicontinuous dyeing of cellulose materials**

Substantive dyes, padding method

The padding solution contains:

REFAKTAN EBV	10 to 25 g/liter
Alginate thickener	2 g/litre
Urea	100 to 150 g/liter
Dye	as necessary

Padding temperature 20 to 25 °C, squeezing 70 to 80 %. This is followed by maturation in a lap for 10 to 24 hours, washing with cold and hot water, stabilization and rinsing.

Packaging, storage

REFAKTAN EBV is usually supplied in PE cans with the volume of 25 or 50 liters or in other pre-agreed packages.

It should be stored in closed packages. Protect against weather effects. Do not store exposed to direct sunlight or

near sources of heat. Recommended storage temperature +5 to +25 °C.

Transportation

REFAKTAN EBV is transported by covered means of transport, it is not subject to ARD/RID regulations.

Warranty period

If the product is stored and transported in compliance with the conditions specified above, its warranty period is 6 months from the date of delivery from warehouse.

Note

Data on product properties and its processing were obtained by laboratory testing and application tests. This technical sheet may however only provide advice which is not legally binding, and the use of the product must be adapted to suit the specific on-site conditions.