

EROKSIZE BA

Size Removing Enzym

CHEMICAL COMPOSITION: Alpha-amylase type enzyme with high activity, resistant to heat, developed specially by means of fermentation for removal of size.

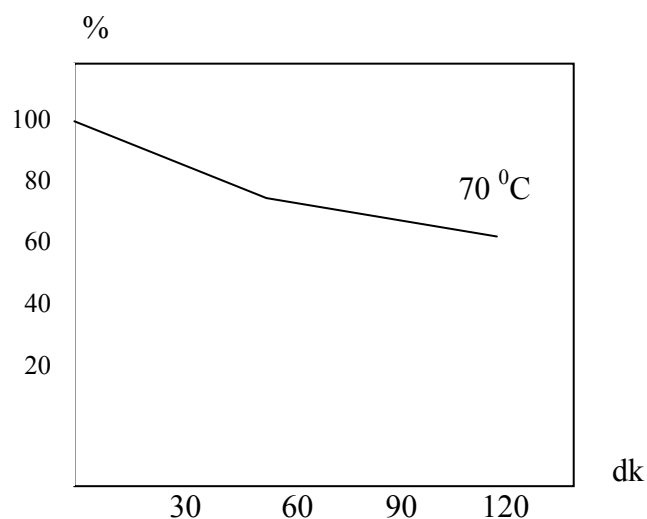
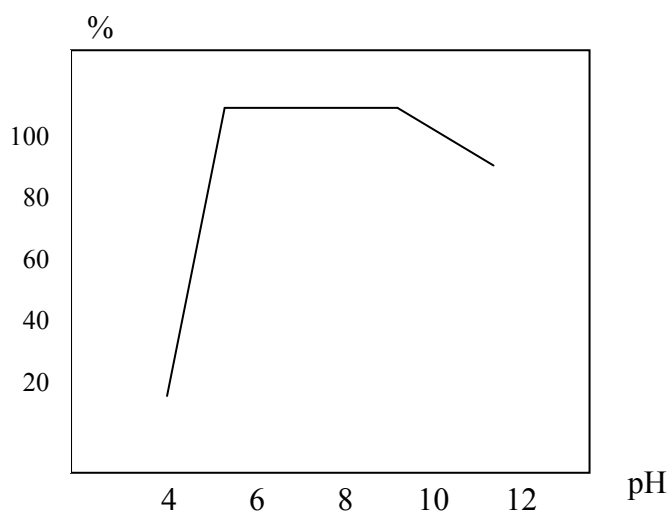
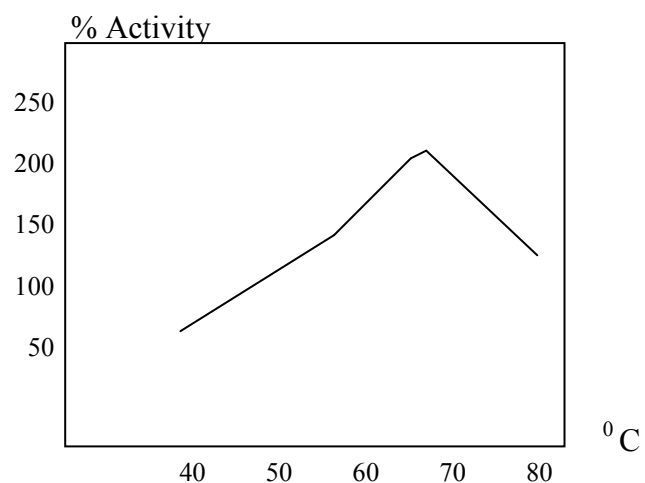
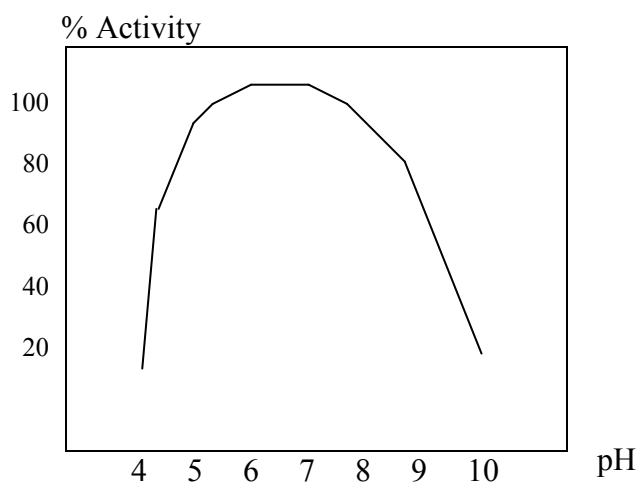
PROPERTIES

- : * Brown liquid.
- * It efficiently and economically removes sizes on the fabrics and parts.
- * As it reacts directly with starch on the fabric, it does not cause damage to the fabric.
- * It is suitable for continuous and pad-batch systems.
- * A biological agent with no harm to human and environment.
- * Resistant to hard waters and gives optimum activity.
- * Does not cause foaming.
- * A type of enzyme that can be active with high temperature stability at limits of 5-11 pH; proper operating environment is between pH 5.5-7.5.
- * It has heat stability between 20 – 90 °C and optimum operating temperature is 70 °C.
- * It may operate harmoniously with all wetting groups.

APPLICATION TECHNIQUE: **EROKSIZE BA** is only used for hydrolysis of starch with enzyme in the process of size removal in textile industry.

APPLICATION

- : pH : 6-6.5
- Temperature : 70 °C
- Time : 15-30 minutes.
- Enzyme Quantity : 0.5-1 g/l
- It should be used 2-4 g/l NaCl in liquor water.
- It is recommended to use 0.05-0.1 g/l in pre-washing process of denim.
- Procedure to be followed in the use of enzyme is as follows:
 - 1- Required quantity of water is taken and heated to optimum temperature (70 °C).
 - 2- Enzyme is added into this water and the process of size removing is started. It can be applied with the wetting enzyme or added to the water in the beginning. Our wetters of **EROWET UK-L** or **EROWET NW** with nonionic character are recommended as wetting agent. Thus as its enzyme activity will be optimum enzyme and time savings is ensured.



STORAGE

: It is stored for 6 months in environment without moisture and with temperature not exceeding 20 $^{\circ}\text{C}$.

PACKAGING

: Plastic drums of 60 and 130 kg.

[The above data are given as a general information. Since processing conditions and application systems are beyond our control, such data are not legally binding for us. Our technical service is ready to assist you for all your technical problems.]

ERCOSIZE BA-CONZ

Size Removing Enzyme

CHEMICAL COMPOSITION: A Bacterial Alpha Amilase type enzyme with high activity, selected from thin bar micro organic bacteria.

PROPERTIES :

- * Gives a perfect result in removing starch size when applied under suitable conditions in textile processes.
- * Used for many different starch sizes before hardening point, and seen that this enzyme is effective on all such sizes.
- * The conditions for application must be as follows: temperature must be 55-70° C. No pH adjustment is required, because may be used at pH range of 6 to 8. Furthermore, pH of water must be adjusted by weak alkali or acid.
- * Since **ERCOSIZE BA-CONZ** has a high concentration, a small storage space and little use is sufficient.

Appearance : Pale brown liquid

Stability : Mixable with water

Optimum pH : 5.5 – 7.5

Density : 1.12 g/cm³

APPLICATION TECHNIQUE :

- * **ERCOSIZE BA-CONZ** is an amilase pH enzyme with high activity on soluble starch size.
- * The best effect is obtained at 55-75° C; but operation at 60 °C or lower temperatures are not recommended.
- * This product is very concentrated when compared with its equivalents.
- * The trials and tests reveal that very little amount of **ERCOSIZE BA-CONZ** is sufficient.

APPLICATION :

pH : Between 6-8

Temperature : 55- 70° C

Time : 10 – 25 minutes

Dosage : 0.1 – 0.5 g/lt.

In order to obtain a perfect result, a thorough washing and rinsing at the end of process is recommended, so even remaining starch is completely removed.

STORAGE : 6 months in a cool and dry place, not under direct sun light, below 25° C.

PACKAGING : Plastic drums of 60 kg.

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ERCOLASE AP-100

Anti-peroxide Enzyme

CHEMICAL COMPOSITION: A catalyst enzyme with high activity and with a wide pH range

PROPERTIES :

- * Used to remove hydrogen peroxide before dyeing at bleaching baths.
- * **ERCOLASE AP-100** does not effect dyes since it is only effective on hydrogen peroxide. Therefore, it prevent colour differences that likely occur due to reducing agents.
- * Since it shortens the pre-dyeing time, it saves time and energy.
- * It is fully biologically decomposed.

APPLICATION TECHNIQUE:

- pH : 3.0 – 9.0 (optimum operating pH : 7.0)
- Temperature : 30 – 60⁰ C (optimum operating temperature : 50-55⁰ C)
- Time : 10 – 20 minutes
- Dosage : 0.1 – 0.5 g / lt.
 - Bleaching bath is emptied.
 - Water for dye bath is drawn, pH and temperature are checked.
 - If temperature is below 60⁰ C and pH is between 3.0 to 9.0, enzym is introduced and fabric is circulated.
 - Peroxide is checked after 10 minutes. If there is still peroxide, circulation is continued for another 10-15 minutes.
 - When peroxide is exhausted, dyeing in the same bath may begin. pH must be adjusted before dyeing.
- Though dosage is recommended, final dosage must be determined during practice.

STORAGE : 6 months in a cool and dry place, not under direct sun light, below 25⁰ C.

PACKAGING : Plastic drums of 25 and 60 kg.

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ERCOSIL KT-LIKIT

Feather Removing Enzyme

CHEMICAL COMPOSITION: **ERCOSIL KT-LIKIT** is an enzyme with high effect on cellulose, obtained from the inner membrane of plant skins.

PROPERTIES :

- * Used for fabrics woven from cotton and other cellulose fibers.
- * Gives a soft brightness to fabric by removing feather, pile and other broken fibers on the fabric.
- * May be used before and after dyeing.

Physical Properties :

Appearance	: Brown Liquid
Density	: 1.1
	Industry Grade

APPLICATION TECHNIQUE:

- * A new enzyme developed to provide smoothness on cellulose fabric during the final finish.
- * Used in knitted and woven fabric (cotton, cotton/PES Linen and Chinese Fiber, other cellulose fabrics)
- * The effects of **ERCOSIL KT-LIKIT** on fabric quality:
 - Feathers, piles and un-wanted waste are removed
 - A soft and smooth feel is obtained
 - A good appearance and a bright colour is obtained
 - These properties prevent any loss of hydrophility

APPLICATION :

Dosage	: 0.5-2.0% of enzyme depending on fabric type
Optimum pH	: 4.5 – 5.5
Optimum temperature	: 45-55° C
Application time	: 30-60 minutes
Heather	: If desired

Note : for pH adjustment, acetic acid or sodium acetate is used. In order to prevent loss of weight on the fabric, pH is finally adjusted to 9-10 by sodium carbonate.

Generally, when the desired result is obtained, loss of weight is about 3-5 %.

STORAGE : 6 months in a cool and dry place, not under direct sun light, below 25° C.

PACKAGING : Plastic drums of 60 kg.

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ERSOL KP-W

Fabric And Starching Agent

It is a starching agent that prevents bend of the fabric ends.

CHEMICAL COMPOSITION : A synthetic agent solved in water.

PROPERTIES :

- * Non-ionic, colourless, clear liquid.
- * Prevents bend of the fabric ends by forming a thermo-plastic film after evaporation of the solved part.
- * Easily penetrates to fabric due to its low viscosity.

APPLICATION TECHNIQUE :

At ram : may be applied as a strip along the edge of the fabric by means of a cylinder revolving in a small container.

At knitting machine : may be sprayed to the edges of the knitted fabric.

STORAGE : 6 months in the original packing in a cool place. Lids must always be kept tight closed.

PACKAGING : Plastic drums of 60 and 130 kg.

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ERSOL KK-10

Anti-foam Agent

Developed especially for textile industry and recommended for all applications except food stuffs.

CHEMICAL COMPOSITION: Dimethylpolysiloxan emulsion.

PROPERTIES : * White emulsion of nonionic structure.
* It is at concentration efficient for useage.
* It is dispersed in liquid environment, and it is applied to the environment before or after the foaming starts depending on the conditions of the environment.

APPLICATION TECHNIQUE: - It can be applied directly or by diluting to the environment requiring anti-foam agent.
- In the beginning, 100 ppm is applied to the bath.

STORAGE : Storing life is 6 months in original and closed packaging. Should be protected from excessive hot and freezing.

PACKAGING : Plastic drums of 60 kg.

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ERSOL SKB

De-foaming Agent Without Silicon

*It is a de-foaming agent safely used in foam problems,
in textile industry where no silicon is wanted.*

CHEMICAL COMPOSITION: It is the mixture of fat acid esters.

PROPERTIES

- : *
- * Nonionic viscous liquid.
 - * May be diluted with water in any ratio.
 - * Used everywhere in textile industry where silicon de-foaming agents cannot be used.
 - * The first half is applied before the mixture and the second half is

applied after addition of the dye, at preparation for printing.

- * Resistant to acid and alkali.

APPLICATION TECHNIQUE:

- As it is or by diluting.
- Daily mixtures are preferred since its mixtures with water are not stable.
 - Used between 0.03 and 0.5 %, depending on the conditions of operation.
 - Must be well shaken before use following long storage.

STORAGE

- : 1 year in the original packing in a cool place. Must be protected against freeze.

PACKAGING

- : Plastic drums of 60 kg.

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