

DERASIT-P DK-2202

Bating agent based on selected microbial proteases formulated to work at slightly acidic baths.

Descriptive properties

Appearance	: Fine white powder
pH optimum	: pH 4,0 - 7,0
pH (1:10)	: 4,5 - 6,5
Solubility	: Completely miscible with water
Storage	: Minimum 1 year - dry storage-

Derasit-P DK-2202 is a neutral protease formulated to work at slightly acidic baths. Due to its very specific nature and the ingredients in the formulation the product softens the hides and skins, makes them lighter in weight, improves area yield, better and more performing dyeing, retanning and fat liquoring are achieved. Derasit-P DK-2202 helps either to reduce necessary amount of fat liquor substantially or to increase substantially the softness without much affecting the fullness. Derasit-P DK-2202 helps also the removal of wrinkles formed due to the mistakes made in earlier manufacturing stages. A more standard production quality with better performance on softness, tear strength, touch, fullness, dye evenness and brightness with better area yield is assured. Dyestuff penetration and dyeing uniformity therefore dyeing yield is greatly improved.

The activity profile of Derasit-P DK-2202 shows second to none smoothness over a wide pH range of $4,0 \leq \text{pH} \leq 7,0$ and the product is stable up to 45°C. Its high solubility allows Derasit-P DK-2202 to penetrate very quickly to the leather cross section. Derasit-P DK-2202 dissolves and removes all excess gelatinous material from the fiber and opens the structure so that dyeing, retanning and fat liquoring operations become more effective. Especially hides and skins with higher fat content become surprisingly lighter in weight compared with normal tanning practice. Cleansing effect associated with the product gives cleaner and even colored leather surfaces. Derasit-P DK-2202 imparts an excellent degree of softness by hydrolyzing unwanted substances in the fiber structure and improves fat liquoring and retanning. Leathers show finer grain pattern and more elastic grain structure is achieved. A very significant increase in the surface area yield is obtained.

As such product finds its use at almost every manufacturing stage from pickling to depickling, from soaking and rewetting to neutralization and also on every type of skin and hide processing, from cow to sheep and double face. Unlike other enzymes Derasit-P DK-2202 do not promote hair slip and it is kept at an absolute minimum.

One quite important aspect of the product is that in tanneries where different origin raw materials are processed by simple but proper addition of Derasit-P DK-2202 to the process the quality of the final leather is shifted towards more standard and higher quality.

Another use for Derasit-P DK-2202 is depickling. When pickled stock is in question creases due to piling and insufficient bating are easily removed. Derasit-P DK-2202 can also be used to standardize wet blue stock and obtain more homogenous bating effect and again to remove wrinkles due to piling and insufficient bating.

Application recipes

The necessary amount of Derasit-P DK-2202 for a specific application will depend on the final intentions and the applications must be optimized according to the needs. This allows each tannery, tanner or formulator to develop its own technology, its own leather quality and its own product.

Remarks

Temperatures above 45°C will affect enzymatic activity in an unpredictable manner thus it must be avoided.

Packaging

25 kg in kraft bags.