

ENZYMATIC TECHNOLOGIES FOR LEATHER

ENHANCING LEATHER

Advancing production.



We continue to apply new ideas to one of the oldest industries on earth.

The objectives of leathermaking never

change. How we execute each step in the process is becoming fundamentally different thanks to innovative enzymatic technologies. Buckman's advanced enzymatic

Buzyme[®] products can help you speed up processes, reduce the use of hazardous chemicals, and enhance the quality of your hides and skins. They do it in a safe manner and at a lower cost—to your tannery and the environment.

Improvements you can count on.

Buckman's comprehensive lineup of reliable enzymatic products can bring a higher level of efficiency to all these steps in your leathermaking operation:

Soaking

Utilize Buckman enzymatic products to enhance rehydration and cleaning of salted hides. They promote uniform softening on the flesh side and improve fleshing.

On fresh hides, they target the endodermis to improve the removal of globular proteins and proteoglycans. On skins, they promote opening up of the skin, improving fleshing and thus aid in further processing.

Unhairing

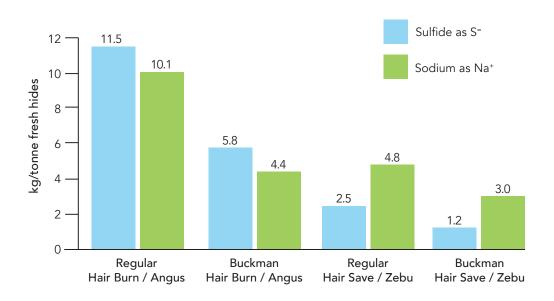
Now you can obtain improved chemical penetration and prepare the epidermis for attack by reductive chemicals. With our protease formulations, you'll see better unhairing results with less hair roots, a flatter, less wrinkled pelt, and a cleaner grain. All while reducing the amount of sulfide and sodium ions in your process and effluent.

Bating

Buckman liquid enzymatic protease preparations have a wider temperature and pH activity range than conventional products. This improved versatility allows for increased process flexibility for effective removal of scud and hair debris. The breakdown of elastin can be controlled to regulate softness, while preserving elasticity.

Degreasing

Replace conventional degreasers with Buckman's enzymatic solutions that aid in the breakdown of triglycerides. Under alkaline conditions, Buzyme lipase degreasers generate soluble soaps that help emulsify the residual fat. You will get cleaner pelts, hair-on or hair-off, and reduce the need for solvent degreasing of skins. The lipases in our formulas increase fat removal and improve chemical distribution throughout the process.



Sulfur and sodium offer



How Buckman puts enzymes to work

Enzymes are large proteins—natural catalysts—used to speed up specific chemical reactions. The commercial enzymes Buckman employs for use in the modern tannery are bioengineered products. Buzymes are based on carefully selected enzymes that are specific for each distinct processing need. Buzymes will standardize your processing, minimize hazardous chemicals, and improve efficiency and sustainability.

Handling and storage

Buzyme enzymatic products feature patented stabilization technology, so you are assured consistent activity of the product after transportation, storage, and in use. The liquid form is easier and safer than powders for handling; no dust is produced. Buckman liquid enzymatic products may be diluted in water immediately before addition to the process vessel to ensure uniform and consistent distribution. They quickly disperse in water and are instantly available for reaction. Buckman enzyme technologies protect grain integrity

The technology you want, the support you need.

Buckman provides advanced chemistries and technical support to improve all areas of leathermaking, from beamhouse to tanyard. To find out more, contact your Buckman representative or visit **buckman.com**.

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