



THE TECHNOLOGY

TECHNOLOGY BIRTH

Silvateam, a global leader in the production of vegetal extracts (used in many sectors), which makes respect for man and the environment one of the first company goals, has worked over 5 years to combine renewable natural tannin sources with safe man-made additives to create something entirely new: high performing leathers without harmful ingredients.

Leather articles do not contain toxic substances that can poison land, water or air. They are free of metals, aldehydes, triazine or any other substances listed in the ZDHC Manufacturing Restricted Substances List (MRSL), which ensures the safety of both tanners and consumers. The result is a tanning system safe for us and the earth. Nature improved. This tanning uses only ingredients that are deemed safe and bio-circular. Silvateam tannin extracts are safe for people and are produced to food grade standards. They start with these food grade extracts, allergen-free, avoid the risks of leather tanned with metals and can be returned to the earth safely. Natural tannins contain no toxic substances and are exempt from REACH registration and no wastewater or chemical waste is produced when making these tannins.

LEATHER PRODUCTS LIFE

It has been proved that leathers tanned with this innovative technology has a positive impact on our lives. They breath and actively absorb, then wick perspiration moisture away from our skin. Farther natural tannins ensure the healthy microbiome of our skin by creating an unsuitable environment for the bacteria responsible for bad odors also ensuring a comfortable wearing experience.



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LEATHER PRODUCTS NEXT LIFE

Thanks to this innovative technology leather can be returned to nature at the end of its useful life. Every component of This type of leather (animal hides, tanning agents, retanning agents and finishes) is engineered to be bio-circular. Unlike most modern materials competing to be less bad for the planet, at the end of a long, useful life This specific tanned leather can be transformed into valuable fertilizers used by crops grown to certified organic standards. With the collaboration of a partner fertilizer company, leather become a fertilizer which releases back to nature the nutrients originally taken on loan from the hide: a turning point for the circularity of leather.

A chemical process, called hydrolysis, is used to break down leather proteins into simpler molecules made up of carbon and nitrogen. The result, protein hydrolysate, is used to make a granular fertilizer that contains organic substances, nitrogen and phosphorus, engineered for use in organic agriculture. The fertilizer is organic farming compliant, is released slowly over time reducing the overall quantity of fertilizer needed to grow crops, is high in organic nitrogen and carbon content and improves soil fertility by stimulating the activity of soil microorganisms.

PARTNERS

Many leather company have chosen to cooperate and using this kind of tanning process to be perfectly sustainable and eco-friendly.

