

**CROMOGENIALNITS**

YOUR SPECIALIST FOR SPECIALTIES



# SUSTAINABILITY



# SUSTAINABLE PROCESSES

## WHAT IS A SUSTAINABLE PROCESS?

A sustainable process is one that:

- **Allows reducing the resources used in terms of products, water and power.**
- **Allows reducing residues and air emissions.**
- **Uses manageable, non-toxic products.**
- **Uses renewable raw materials.**

With these requirements in mind, Cromogenia Units, S.A offers a variety of sustainable processes for unhairing and tanning.

### RIBERZYM ECO C

**ECO UNHAIRING** is a process where a minimum quantity of  $\text{Na}_2\text{S}/\text{NaHS}$  is used in combination with an enzyme product, RIBERZYM ECO C. This process generates waste waters with lower sulfide content, lower BOD and COD, and lower sludge production.

### RETANAL SCT

This is a non-swelling organic acid that allows reducing salt content during pickling. It also allows reducing total processing time up to 50%, and totally removes sulfuric acid. This process also provides greater chromium oxide fixation onto the hide and lower collagen degradation (greater hydroxyproline content in hide), thus providing a tighter, fuller leather with improved resistances.



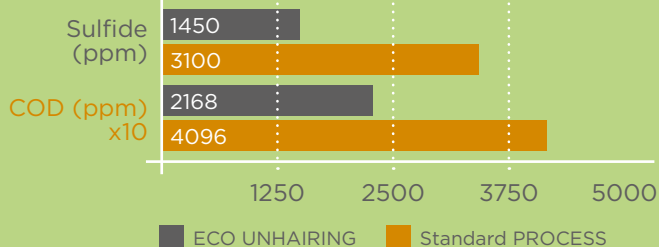
#### RIBERZYM ECO C

- Lower quantity of  $\text{Na}_2\text{S}/\text{NaHS}$
- Lower COD/BOD
- Lower sludge production

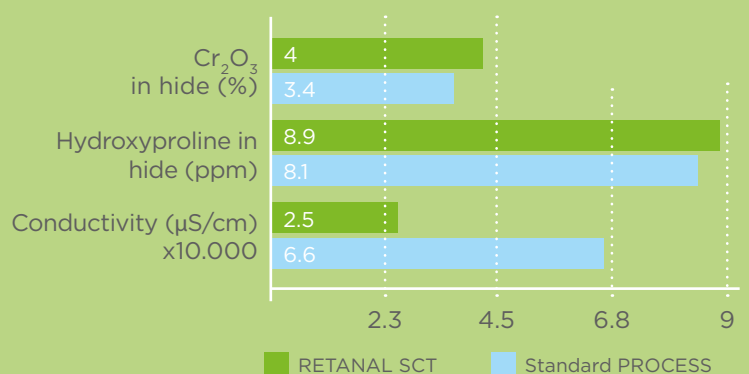
#### RETANAL SCT

- Lower salt content
- Sulfuric acid removal
- Higher  $\text{Cr}_2\text{O}_3$  fixation

#### ECO UNHAIRING



#### RETANAL SCT



# SUSTAINABLE PRODUCTS

## WHAT IS A SUSTAINABLE PRODUCT?

While the definition of a sustainable product is unclear, several characteristics help define it:

- **Biodegradable**
- **Originating from a renewable or residual raw material**
- **Highly effective**
- **Environment- and health-friendly**
- **Without restricted substances**

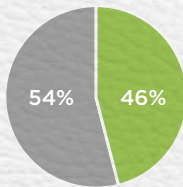
In line with this, **Cromogenia Units** presents the **ST RANGE** of sustainable products.

These products originate from renewable raw materials and contain low or zero content of formaldehyde and low COD.

## ST RANGE

*\*Graphs indicate the biobased carbon content (ASTM D6866)*

■ Fossil carbon  
■ Biobased carbon

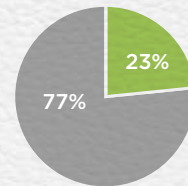


### RETANAL ST-AA

This is an acrylic biopolymer that stands out for its high fullness when applied at the retanning stage. It also provides the leather with high firmness which, makes this product highly appropriate for milled articles requiring excellent grain tightness.

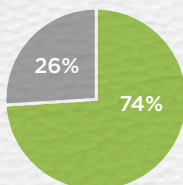


### RETANNING



### RETANAL ST-AP

This is an amphoteric acrylic biopolymer that can be used for retanning any hide with very empty structures. RETANAL ST-AP provides fullness, tightness and excellent dye intensity.

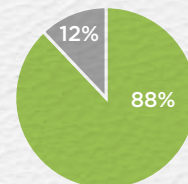


### RETANAL ST-MP

This is an amphoteric biopolymer with good filling action without hardening the leather. Its dye yield is better than that of usual retanning agents. When applied in splitting and suede articles, it provides hides with excellent buffing qualities and a short, compact nap.

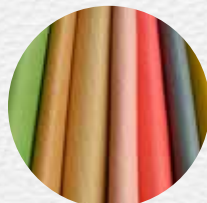


### FATLIQUORING



### FOSFOL ST-AW

This is a sustainable fatliquor of natural origin for car upholstery in wb and ww. It stands out for its high softness, high dye intensity, good tensile strength and tear load, low COD, and good fogging values in both wb and ww.



### FINAL PRODUCT



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