



AVICUERO®

A solid step towards sustainable tanning

www.archroma.com
textileeffects@archroma.com

ARCHROMA MANAGEMENT LLC
Hardstrasse 1
4133 Pratteln
Switzerland

ARCHROMA TEXTILE EFFECTS
Archroma Singapore, Pte. Ltd.
1 International Business Park
#06-01 The Synergy
609917 Singapore

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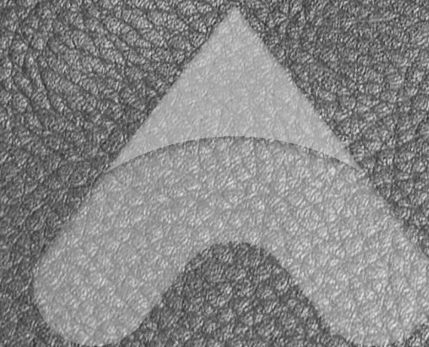
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AVICUERO® / A solid step towards sustainable tanning



AVICUERO®



/ THE LEATHER INDUSTRY

Chrome tanning is the most widely used leather tanning method in the industry. It is very popular due to its efficiency, versatility, and ability to produce leather with desirable characteristics such as softness, flexibility, and durability. However, the use of chrome is under scrutiny and there are several chrome-free leather tanning systems that aim to reduce the environmental impact of leather production and minimize the potential health risks associated with chromium exposure.

These chrome-free systems often show significant challenges when trying to achieve deep black colors with good fastness levels. In addition, these alternative systems often require long retanning processes with high temperatures and additional chemicals.

/ THE BREAKTHOUGH

Archroma is proud to introduce **AVICUERO®**, the technological breakthrough in leather processing.

AVICUERO® BLACK SL is the first in a new range of novel colored tanning molecules which are metal-, aldehyde- and bisphenol-free organic compounds that achieve a simultaneous tanning and dyeing effects with outstanding high fastness.

AVICUERO® TR22 has also been developed as an alternative process without coloration. The resultant wet black or wet white leather can be processed through a proper retanning process to achieve the target article with lower interlining, while complying with the strictest regulatory compliance requirements.

/ BENEFITS

The high performance **AVICUERO®** metal-free molecule achieves both cross-linking and superior color fastness with good hydrothermal stability. It contributes to environmental sustainability and is fully compliant with the industry's strictest regulatory standards.

/ AVICUERO® SYSTEM



Applied at neutral / slightly alkaline pH:
no need to pickle & NaCl addition

Metal & glutaraldehyde & bisphenol free

Hydrothermal stability more than adequate & consistent

Based on covalent bond with collagen chains

Achieve any colors from 2 possible options

/ White tanning: AVICUERO® TR-22





/ Dye-Tan: AVICUERO® Black SL (tanning & dyeing in the same step) – extensive to other shades



/ A STEP TOWARDS SUSTAINABILITY

The **AVICUERO®** technology platform allows tanners to take significant, positive steps towards reducing CO₂ values attributed to wet-end processing, particularly when coupled with specific retanning and fatliquoring technology. This innovative tanning process is proven to be highly pH controlled and often does not require any temperature adjustments.

With **AVICUERO®**, tanners benefit from significantly shorter processing times and better reduction of CO₂ emissions as compared to using other metal free tanning systems. It also eliminates the pickling process and the use of common salt leading to improved effluent discharge loads.

	 PROCESS TIME	 WATER CONSUMPTION	 ENERGY CONSUMPTION	 CO ₂ EMISSION
Glutaraldehyde based tanning:	-4%	-49%	-10%	-7%
Organic tanning system:	-15%	-12%	-12%	-14%
AVICUERO® TR22 Wet-white:	-22%	-27%	-25%	-23%
AVICUERO® Black SL Wet-black:	-16%	-22%	-17%	-16%

Small steps.
Huge impact.

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