

TFL ECO TEC

Low Impact Beamhouse and Tanning

Sestablished processes and chemicals taking care of the environment







Eco challenges in Beamhouse and Tanning

The main challenges in processing raw hides and skins are high contents of sulfide, nitrogen, salts and chromium and too high COD / BOD values of the waste water. In addition there are obnoxious smells, solid waste and fresh water consumption to deal with.

TFL ECO TEC in Beamhouse

Soaking / Liming -Low sulfide unhairing:

The TFL low sulfide unhairing provides a clean, relaxed, well opened-up pelt by using:

- → PELLVIT® LSG or PELLVIT® LSS in soaking to clean the hair and hair follicles from grease to avoid hair root retention
- → ERHAVIT® LSU to support the unhairing process and allowing to reduce the lime and sulfide offer
- → BORRON® DLS to avoid fat smearing drum wall and pelt

Deliming / bating -Ammonium-free deliming / bating:

A safe, buffered system which cleans the pelt remarkably well without having a negative effect on the integrity of bellies and grain by using:

- → DERMASCAL CD, ammonium free deliming agent
- → OROPON® ON2, OROPON® W, OROPON® MS, OROPON® MT, ammonium free bating agents
- → BORRON® SCA bleaches and boosts scudd removal

Benefits:

- → Sulfide reduction
- → COD / BOD reduction
- → Odour reduction
- → Sludge reduction in case hair is filtered
- → Ammonium and total nitrogen reduction
- → Risk reduction of H₂S gas formation
- → Energy reduction in waste water treatment plant
- → Optimised hair and scutt removal
- → Lay-out improvement
- → Optimal cutting yield

TFL ECO TEC in Tanning

Pickling / Chrome tanning -Low salt pickling:

A fine grain wet blue with reduced offer of chromium and common salt can be produced with:

→ SELLATAN® PA Liq as a pickle acid which allows a more even chromium penetration and improved chromium exhaustion

Benefits:

- → Sulfate and chloride reduction
- → Chromium reduction
- → Better chrome distribution
- → Finer grain
- → Improved leather quality

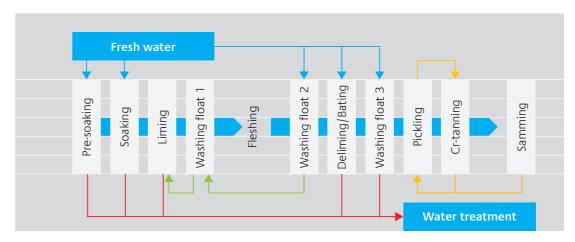




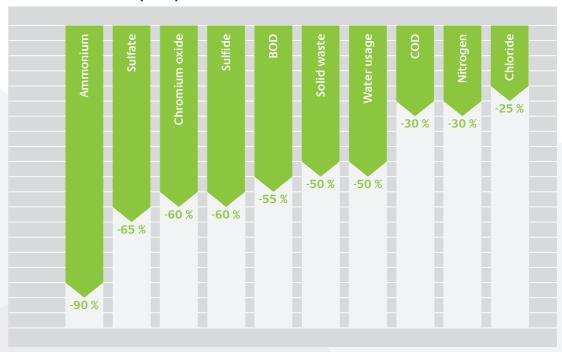
TFL ECO TEC – we help you to significantly reduce your water usage

Direct float recycling:

- → Pre-soaking, main-soaking, the washing before deliming and after bating are all done with fresh water
- → The washing float from before deliming is re-used as washing float after liming and this float is re-used
- → Pickle and tanning floats are recycled in a closed loop
- → Pre-soaking, main-soaking, liming, deliming and the washing floats after bating are discarded as waste water



Possible reduction (%) of the ecological impact of a typical wet-blue plant standard vs. low impact process:



Based on typical waste water values found before treatment. Full substance wet-blue processed from salted bovine hides of around 30 kg.



