

# NATURE-L by CONCERTIA NUVOLARI SOCIETA' BENEFIT SRL

INDUSTRIAL

**Description:** A metal-free printing procedure has also been developed to offer printed version of the leather, which can be personalized with prints without impacting its main characteristics. Nature-l hides have been certified compostable in controlled composting conditions according to ISO14855.

The University of Bologna has also supported the technical testing to prove biodegradability, as certified in last report dated July 2018.

In addition to its high grade of biodegradability, Nature-L® brings a range of positive attributes, including:

1. Higher reduction of water consumptions than the traditional tanning process;
2. Reduced impurities in waste waters from the production process, as no heavy metals are used during tanning
3. Reduced cut-off waste thanks to the increase of the workable leather (less disposal costs, less pollution as cut off are biodegradable)
4. Improved leather performances, higher resistant to tears and breakages
5. Improved colour intake and reduced amount of needed dye

Nature-l : Biodegradable leather – Higher cutting value – Versatile and high performing – Environmental protection – Reduction of waste costs – Biodegradable Iso 14855 Iso 20136 – No toxic , non polluting – Exclusive patent



## Production Process:

- Know How developed by us.

## Product Certifications:

- COLOUR FASTNESS TO RUBBING UNI EN ISO 17700:2006
- COLOUR FASTNESS TO RUBBING UNI EN ISO 11640:213
- COLOUR FASTNESS TO PERSPIRATION UNI EN ISO 11641:2013
- ABRASION RESISTANCE ISO 17704:2004
- DETERMINATION OF TENSILE STRENGTH AND ELONGATION UNI EN ISO 3376:2012
- STRESS RELIEVING AND TENSILE STRENGTH OF A LEATHER FLOWER (BURST TEST) ISO 3379:2015
- METAL FREE ISO 17072 – 2 : 2011  $\leq 0,1\%$  ( 1.000 mg/Kg)
- TEAR RESISTANCE UNI EN ISO 3377-2:2016
- DURABILITY ISO 105 BO2 – ISO 17228:2015 – ISO 13934-1 SOIL BURIAL
- BIODEGRADABLE / COMPOSTABLE ISO 14855-2:2007 – ISO 20136:2017 BOLOGNA UNIVERSITY – SSIPP
- CHROME – ALLUMINIUM – TITANIUM – RON - ZIRCONIUM UNI EN ISO 17072-2:2011
- AZODYES UNI EN ISO 17234-1 : 2015
- CARCINOGENIC DYES Extration in Methanol –70°C – 30 min – Ultrasounds TCL/LC-DAD / LC-MS
- DETERMINATION OF TOTAL PB – CD – AS – HG – CONTENT UNI EN ISO 17072-2:2011
- DETERMINATION OF EXTRACTABLE PB – AS – SB – HG – NI – CO – ZN - CONTENT UNI EN ISO 17072-1:2011
- PRE-AGING OF LEATHER ISO 10195:2018
- CHROMIUM VI AFTER AGING UNI EN ISO 17075-1:2017
- ALKYLPHENOLS AND ETHOXYLATE ALKYLPHENOLS ISO DIS 18218-2:2012
- PENTACHLOROPHENOL – PENTACHLOROPHENOL – TETRACHLOROPHENOL UNI EN ISO 17070:2015
- DETERMINATION OF CHLORINATED PARAFFINS ISO 18219:2015
- ORGANOTIN COMPOUNDS UNI CEN ISO/TS 16179:2012
- TOLUENE AND BENZENE - CHLORORGANIC CARRIERS DIN 54232:2010 Extraction with solvent
- PH UNI EN ISO 4045:2008
- FORMALDEIDE UNI EN ISO 17226-1 : 2008
- DIMETHYLFUMARATE ISO /TS 16186: 2012
- FORMAMIDE EPA5021A
- DIMETHYLACETAMIDE EPA 5021A + EPA 8260
- DIMETHYLFORMAMIDE CEN ISO/TS 16189:2013
- METHYL-2-PYRROLIDONE EN ISO 19070:2014

## Product Certifications:

- ENVIRONMENTAL FOOT PRINT PROFILE : BOVINE, CAPRINE, OVINE (LCA)
- CARBON NEUTRAL CERTIFICATION <https://www.reteclima.it/aziende/nuvolari/>
- CRADLE TO CRADLE INDIRECT CERTIFICATION BY CUSTOMER
- FOR THE PRODUCT CERTIFICATE OF THE LAVAGGIO A SECCO – ISO 11643:2009

## SELECTED BY:

- CALL FOR PAPERS ECOMONDO studio compostabilità/biodegradabilità : [https://www.linkedin.com/posts/sara-santori-435177168\\_siamo-presenti-ad-ecomondo-fiera-di-rimini-activity-6858719949339283456-EgsX](https://www.linkedin.com/posts/sara-santori-435177168_siamo-presenti-ad-ecomondo-fiera-di-rimini-activity-6858719949339283456-EgsX)
- LONDON MUSEUM –UAL
- Book Egea Bocconi “Rinascere sostenibili” <https://drive.google.com/file/d/1hrg7X1UKvwEVmKw3d5bIW4tRLKMgtxUs/view>