

okinawa<sup>®</sup>  
MATERIAL MASTERS





Hydroki® is an innovative product. It is an exclusive washable leather, with ecological characteristics, wet-white and metal free tanned, available in a wide range of colours, also vegetable colours. Hydroki is the one and unique in the world certified class I Standard 100 Oeko Tex®.

Hydroki® products have been developed within the green materials project and are exclusive from Okinawa. They are used for the realization of Labels and Trimmings.





**CERTIFICATO**

**CENTRO TESSILE COTONIERO e ABBIGLIAMENTO S.p.A.**  
Istituto dell'Associazione Internazionale per la Ricerca e Prova nel Campo dell'Ecologia Tessile  
Piazza S. Anna, 2  
21052 Busto Arsizio (VA) - Italia

La Ditta  
**Okinawa S.r.l. Società Unipersonale**  
Via dell'Economia 24  
35044 Montagnana PD, ITALY

è autorizzata in base all'Oeko-Tex® Standard 100 e al ns Rapporto di Prova n. 15RA00132, a utilizzare il marchio Oeko-Tex®

**FIDUCIA NEL TESSILE**  
Testato per sostanze nocive secondo Oeko-Tex® Standard 100

1210815.O                      CENTROCOT

per i seguenti articoli:  
**HYDROKI®:**  
- pelle ecologica lavabile colorata  
- pelle ecologica lavabile tinta con colore vegetale

Dalle prove eseguite sui suddetti articoli, in base all'Oeko-Tex® Standard 100 Classe I per articoli per neonati, risulta che i requisiti umano-ecologici, attualmente in vigore e stabiliti da questo Standard, sono stati rispettati.

Gli articoli certificati rispettano i requisiti dell' Allegato XVII del REACH (tra cui l'uso di coloranti azoici, nichel, ecc.) così come i requisiti della legislazione americana riguardanti il contenuto totale di piombo negli articoli per bambini (CPSIA, con l'esclusione degli accessori in vetro).

L'intestatario di questo certificato, che ha sottoscritto la Dichiarazione di Conformità in accordo con la norma ISO 17050-1, è vincolato ad utilizzare il marchio Oeko-Tex® solo per gli articoli conformi ai campioni inizialmente analizzati. La conformità è verificata tramite audit.

L'autorizzazione è valida fino al 26.11.2015  
Busto Arsizio, 23.01.2015

Dott. Grazia Cerini  
Direttore Generale

**CERTIFICATE**

**CENTRO TESSILE COTONIERO e ABBIGLIAMENTO S.p.A.**  
Istituto dell'Associazione Internazionale per la Ricerca e Prova nel Campo dell'Ecologia Tessile  
Piazza S. Anna, 2  
21052 Busto Arsizio (VA) - Italia

The company  
**Okinawa S.r.l. Società Unipersonale**  
Via dell'Economia 24  
35044 Montagnana PD, ITALY

is granted authorisation according to Oeko-Tex® Standard 100 to use the Oeko-Tex® mark, based on our test report 15RA00132

**CONFIDENCE IN TEXTILES**  
Tested for harmful substances according to Oeko-Tex® Standard 100

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for the following articles:  
**HYDROKI®:**  
- dyed washable ecological leather.  
- washable ecological leather, dyed with vegetable color

The results of the inspection made according to Oeko-Tex® Standard 100, product class I have shown that the above mentioned goods meet the human-ecological requirements of the standard presently established for baby articles.

The certified articles fulfill the requirements of Annex XVII of REACH (incl. the use of azo-dyes, nickel, etc.) as well as the American requirement regarding total content of lead in children's articles (CPSIA), with the exception of accessories made from glass).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the Oeko-Tex® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

This authorisation is valid until 26.11.2015  
Busto Arsizio, 23.01.2015

Dott. Grazia Cerini  
General Manager

In 2012 the Hydroki® leather was the first to be certified Class I Standard 100 Oeko Tex®. At the moment it is the unique in the world that obtained a so strict certification which guarantees truly amazing eco-toxicological requirements if compared to those prescribed by the law for this kind of products.



**CONFIDENCE IN TEXTILES**  
Tested for harmful substances according to Oeko-Tex® Standard 100



limits OEKO TEX® Standard 100 – comparison of classes				
test	Hydroki® Class I mg/kg	Class II mg/kg	Class III mg/kg	Class IV mg/kg
formaldehyde	undetectable	75	300	300
arsenic	0,2	1,0	1,0	1,0
lead	0,2	1,0 <sup>s</sup>	1,0 <sup>s</sup>	1,0 <sup>s</sup>
chromo	1,0	2,0	2,0	2,0 <sup>a</sup>
cobalt	1,0	4,0	4,0	4,0
nickel	1,0	4,0	4,0	4,0
Chlorinated phenols	0,05	0,5	0,5	0,5
Organotin compounds	0,5-1,0	1,0-2,0	1,0-2,0	1,0-2,0
orthophenylphenol	50,0	100,0	100,0	100,0
PFOA	0,1	0,25	0,25	1,0
Phthalates (all) (w%)	0,1	Not all of them are investigated		
Colour fastness to perspiration and saliva	solid	Not performed		

#### main requirements met by Hydroki® according to Oeko Tex® Standard 100 class I

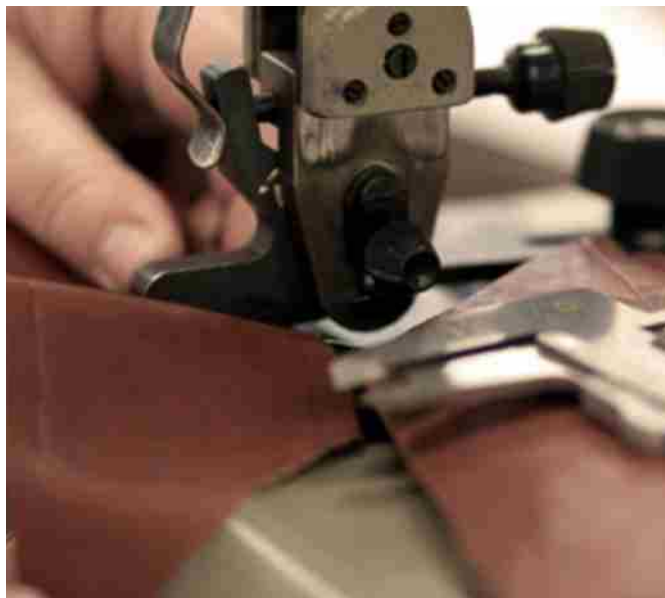
main test performed	UdM	requirements
Formaldehyde (JIS Law 112)	mg/kg	nd
Arsenic (As)	mg/kg	≤ 0,2
Lead (Pb)	mg/kg	≤ 0,2
Chromium (VI)	mg/kg	under detection limit
Cobalto (Co)	mg/kg	≤ 1,0
Cadmium (Cd)	mg/kg	≤ 0,1
Nickel (Ni)	mg/kg	≤ 1,0
Aromatic amines derived from azocolourants	mg/kg	nd
Dyestuffs classified as Carcinogenic and allergenic	-----	not used
Organotin compounds (TBT-TPhT)	mg/kg	≤ 0,5
Organotin compounds (DBT-DOT)	mg/kg	≤ 1,0
Chlorinated phenols	mg/kg	≤ 0,05
Short Chained Chlorinated Paraffins	W %	≤ 0,1
Colour fastness to water (staining)	grey scale 1:5	≥ 3
Colour fastness to acidic perspiration(staining)	grey scale 1:5	≥ 3/4
Colour fastness to alkaline perspiration (staining)	grey scale 1:5	≥ 3/4
Colour fastness to rubbing, dry (staining)	grey scale 1:5	≥ 4
Colour fastness to saliva and perspiration (staining)	grey scale 1:5	fast (≥ 4/5)

Class I guarantees the safety of products which may be in contact with the skin of infants and babies up to three years.

It is the most restrictive in terms of content of harmful substances and for this purpose additional tests have been carried out as well.



# characteristics



The Hydroki® leathers, certified in class I Standard 100 Oeko Tex®, are tanned wet-white metal free. They are manufactured in natural version or dyed in a wide range of colours, also with vegetable colours.

They are available in various thickness and finishing that use non-toxic raw materials.



# characteristics



The Hydroki® leather has really surprising and exclusive characteristics:

it is washable

it resists to domestic washing at max 40 °C and to dry cleaning

it darkens on effect of heat

it has a great dimensional resistance which makes it stable to dimensional decrease, so it is not susceptible to shrinking and size decreases like "similar" leathers



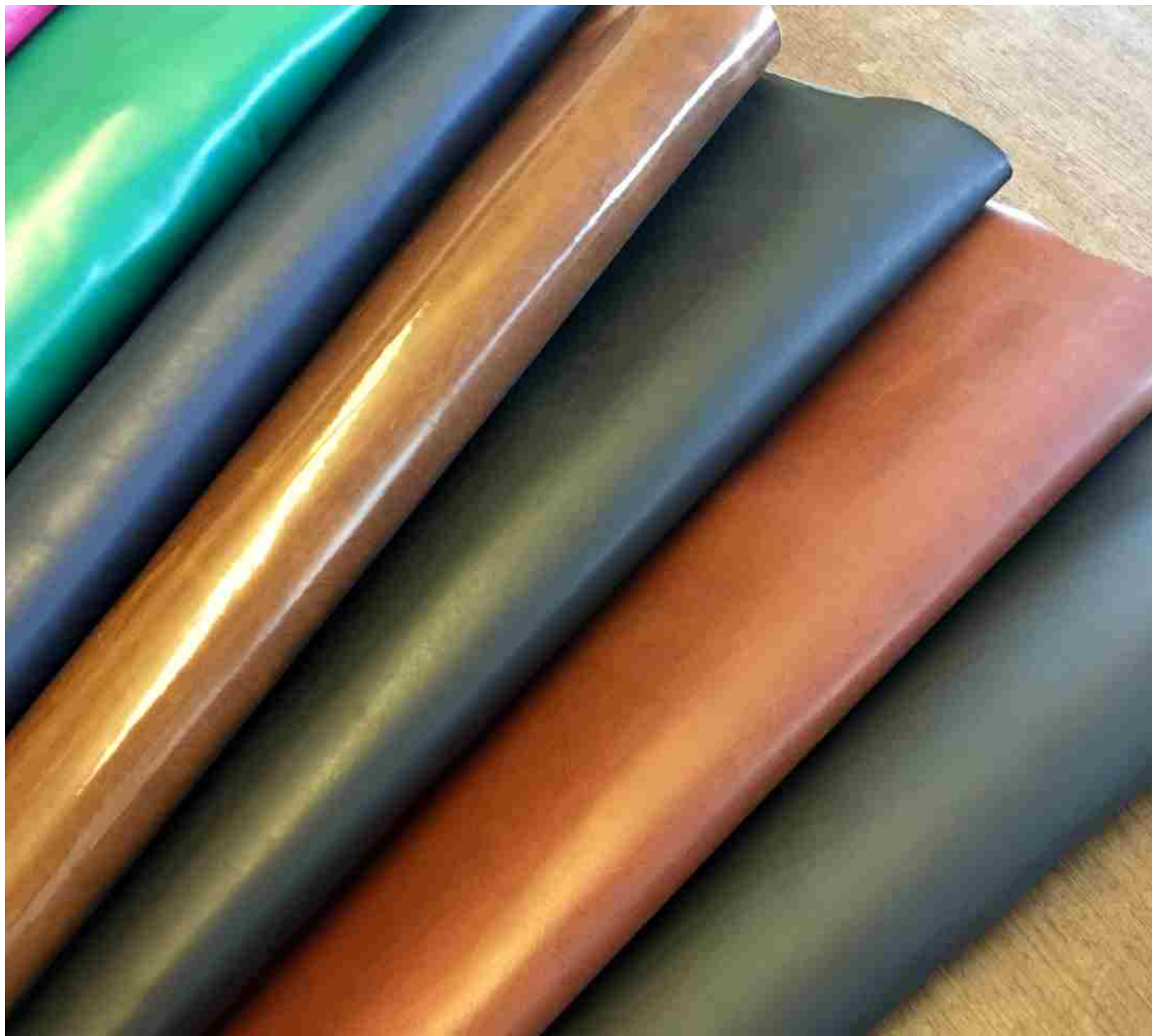
characteristics



The Hydroki® leather, certified in Class I Standard 100 Oeko Tex®, has a safety feature to human health, it was particularly tested to come in contact with the skin of babies even under 3 years of age.

This characteristic makes Hydroki® suitable for use in different sectors and applications where the leather comes in contact with human skin. It is suitable therefore, in the realization of footwear, belts, bags, sofas, clothing, etc ... after an appropriate finishing which uses non-toxic substances.





The productive process adopted to realize Hydroki® leathers uses neither substances prohibited by law, nor those regulated by law, nor chemicals harmful to health and takes into account a number of parameters for the protection of human health, according to the most advanced technologies available today.

The use of non-toxic raw materials allows to reduce the production of hazardous waste and harmful emissions. Thanks to these characteristics of high ecological safety, as well as those relating to human health, it has been possible to obtain the certification in Class I according to OEKO TEX® Standard 100 on Hydroki® products.



respect for the environment





product applications

## **okinawa srl**

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