

CTC international



Italy

CTC ACQUIRES
MAJORITY STAKE
IN ARS TINCTORIA S.r.l

p. 4

Editorial

Dear customers and partners,

Drawing upon our expertise in leather, materials, leather goods, shoes, and gloves, CTC has established longstanding relationships with customers across various sectors including luxury, fashion, distribution, sport, and personal protective equipment (PPE). Our objective is to integrate seamlessly into your value chain and become your indispensable partner for ensuring the quality control and sustainable development of your products.

To achieve this, CTC offers a comprehensive suite of services tailored to meet the specific needs and structures of our clients, regardless of their profile or requirements. We provide support through measurement, testing, control, certification, auditing, inspection, and standardization across the entirety of your product's value chain.

Equipped with innovative tools and agile teams, CTC is dedicated to supporting your dynamic growth and anticipating market changes. Our strategically located facilities in key production and consumption hubs enable us to gather market intelligence and enhance the reliability of your sourcing chain.

Throughout 2023/24, we have continued to enhance our services and expand our capabilities in Europe and Asia. Additionally, we are pleased to announce our acquisition of a 75% stake in Ars Tinctoria, resulting in the establishment of our new subsidiary, CTC Ars Tinctoria Italy. This strategic move allows us to further assist you in your future projects, offering enhanced services and improved turnaround times.

CTC Ars Tinctoria Italy introduces a novel approach for evaluating the bio-sourced carbon content of materials used in shoe products, leather goods, gloves, and more. This includes materials such as leather, textiles, plastics, and other materials derived from plant waste.

In this magazine, you will find highlights of our recent developments in Europe and Asia, with a special focus on the evaluation of bio-sourced materials and regulatory updates pertaining to PPE products, an area in which CTC is recognized as a leader in certification and testing.

We remain committed to supporting your growth and mitigating risk. Thank you for your continued trust and support. Enjoy reading this. ●

Jean-Luc Chaverot

CTC Development and International Director



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Following APLF China in March, CTC is set to participate in various trade fairs (Sustainability, Leather, PPE) in France and Italy. Our experts are looking forward to discussing our new solutions with you!

Diary

Upcoming trade fairs

CHINA

APLF

APLF
Serving the Global Industry

19-21 March 2024

CTC Booth N° 3B-A01

(LEVEL 3)

Hong Kong Convention and Exhibition Centre

After four years, the APLF Leather fair will come back to Hong Kong, where the international leather business meeting point originated. This event will be a great opportunity to meet with the CTC team of experts.

www.aplf.com/aplf-2024



CTC's team at Simac Tanning Tech - September 2023

ITALY

SIMAC TANNING TECH



17-19 September 2024

CTC Booth N°: coming soon

on www.ctcgroupe.com

Fiera Rho, Milano

Simac Tanning Tech is the reference event for the footwear, leather goods, tanning machines, and technologies sector. CTC Ars Tinctoria will be present this year at Simac to expand the development in Italy. It will be a good way to discover our traceability and laboratory solutions.

www.simactanningtech.it

FRANCE

EXPOPROTECTION



5-7 November 2024

CTC Booth N° T077

Paris Expo - Porte de Versailles

Expoprotection is the international event that brings together all the risk management markets. With an increasingly wide range of offers, the CTC team of experts will be happy to meet you to discuss our PPE solutions for footwear and glove products.

www.expoprotection.com



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CTC acquires majority stake in **Ars Tinctoria S.r.l**

After two years of partnership, CTC has just acquired a majority stake in Ars Tinctoria S.r.l. With this new Italian subsidiary, CTC has established itself at the heart of the industrial fabric of the main Italian tanneries.

On 10 November 2023, CTC's Executive Management announced the creation of our Italian subsidiary CTC Ars Tinctoria.

After two years of efficient collaboration, which started as a partnership of subcontracting chemical analyses, and to better assist their clients, the two entities have decided to take their corporate amalgamation to the next level as CTC has taken a majority shareholding in Ars Tinctoria S.r.l.

The laboratory located in Santa Croce Sull'Arno has a strong presence and a great reputation on the Italian market. It is specialised in organic analytical research, colour and light, and offers a wide range of services in various fields, including synthesis, analytic research and studying the molecular structures of colourants, research into hazardous substances for people and the environment, and measuring and standardising colours. CTC Ars Tinctoria has twenty employees who work to the same high standards as CTC.

CTC Ars Tinctoria's Managing Director is now Pierre Beupoil. Founder Gustavo Defeo continues with the company as Vice-President and Scientific Director. The significant synergies between the two entities will enable customers to benefit from their combined services as well as an enriched and complementary range of services. Thanks to the presence of CTC Ars Tinctoria in Italy, a 50% growth in turnover is expected over the next five years.●



CTC Ars Tinctoria's advanced equipment

Contact us:
commerciale@arstinctoria.it



The premises of CTC Ars tinctoria in Santa Croce sull'Arno





GUSTAVO DEFEO

Scientific Director of CTC Ars Tinctoria



This transaction is an important step for Ars Tinctoria S.r.l, which will benefit from CTC's expertise and the pooling of resources for programmes such as ZDHC

(Zero Hazardous Discharge Substances) or new protocols for bio-sourced materials. This amalgamation with CTC, a cutting-edge centre for the shoes and leather goods sector, will allow us to offer our clients a more extensive and expert offering both in Italy and internationally.

- November 2023 -

PATRICE MIGNON

Chairman of CTC



After our growth in Asia, we are continuing our international development. As Italy is one of the leading countries in the fashion and luxury goods industry, it seems only natural that

CTC should be present in the country. Joining forces with a high-quality laboratory such as Ars Tinctoria S.r.l is great news for our clients. We now offer them the opportunity to enjoy solutions that complement those of CTC, particularly in the domain of chemical analysis and expertise in bio-sourced materials.

- November 2023 -

Three questions to Pierre Beaupoil

Newly appointed Managing Director of CTC Ars Tinctoria, Pierre Beaupoil has many years of experience working for CTC in Europe and Asia. We went to meet him to find out more about his background and his vision for the Italian subsidiary.

Pierre could you tell our readers about your background at CTC and your new functions?

I've always been attracted by experiences abroad. As a young graduate, I applied to CTC as an engineer, having already worked abroad (USA, Wales, Spain). CTC then entrusted me with the management of the laboratory we opened in Hong Kong in 1998: CTC Asia. Since then, CTC has always shown confidence in me when it comes to setting up and monitoring its structures abroad (CTC Shanghai, CTC Dongguan, CTC India).

CTC's presence in Italy now seems essential to us, and CTC Ars Tinctoria is structural in terms of our deployment objectives. Naturally, CTC continues to place its trust in me for the management and deployment of this new Italian subsidiary.



The general management of CTC Ars Tinctoria will be entrusted to Pierre Beaupoil

What do you foresee as the advantages of CTC joining forces with Ars Tinctoria?

In Europe, France and Italy are the main players in the leather and luxury goods industries. They are closely intertwined at every level of the industry (raw hides, tanning, leather goods and footwear). Italy is now a supplier of leather and components, a sub-contractor, a customer and a competitor of French companies.

CTC needs to be able to accompany its customers and support its member manufacturers in their international projects. With its experience and range of services, backed up by the expertise and know-how of Ars Tinctoria S.r.l., CTC has become a key centre of expertise in the heart of Tuscany and Veneto. These regions, where CTC Ars Tinctoria is based, are also the main locations for the leather industry, accounting for 82% of Italian production.

What are CTC Ars Tinctoria's goals for the forthcoming five years?

CTC Ars Tinctoria aims to double its revenue over the next 5 years. To achieve this, we want to roll out analysis tools such as ZDHC analyses, measurement support services such as the "CTC Laboratory approved" programme and innovative support services such as "analyses of bio-based materials", which we believe are essential for supporting the industry and our manufacturers.

We are entering a high-stakes era during which we should provide our customers and their suppliers with local expertise, as well as support them in dealing with all the environmental and regulatory constraints facing the industry. The deployment of CTC in Italy and the CTC Ars Tinctoria structure is one of the ways in which we are meeting the challenge posed by these new issues. ●

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CTC Ars Tinctoria's Seminar February 2024

After a successful first Italian seminar in 2023, CTC Ars Tinctoria held a new seminar on 12 February 2024 in Santa Croce Sull'Arno, where our subsidiary's headquarters is located.

On 12 February, the CTC Ars Tinctoria seminar convened over 90 attendees to delve into discussions regarding sustainability practices, compliance standards, and traceability measures. The event brought together a diverse array of stakeholders from the leather industry, including slaughterhouses, tanneries, traders (covering raw materials to finished products), and renowned luxury brands.

CTC Ars Tinctoria presented the innovative solutions that enable supply chain players to meet new challenges and align themselves with the increased expectations of stakeholders, certification bodies, industry associations and end consumers.



Seminar CTC Ars Tinctoria on 12 February 2024

Gustavo Adrian Defeo, CTC Ars Tinctoria Scientific Director, took the stage to deliver an insightful lecture introducing the new bio-based content assessment. In his keynote, he elucidated the principles underlying this certification, emphasizing its potential application within the fashion sector as transparent means to showcase material circularity and guide end-of-life options management. Mr Defeo elaborated on the certificate's alignment with bioeconomy and eco-design concepts,

underscoring the importance of selecting materials compatible with future waste management strategies.

Paul D'Arras, CTC Industrial IT Department Manager, provided a following in-depth overview of the "ALIS" marking and reading system developed by CTC. It shed light on ALIS' role as a solution for the traceability of hides and skins, offering insights into the cutting-edge leather traceability systems implemented in French slaughterhouses and tanneries.

In the final segment of the event, Gustavo Defeo returned to the stage to discuss the evolution of leather article development within the context of growing environmental concerns. He emphasized the necessity for a paradigm shift towards more conscientious decision-making, where environmental considerations are paramount.

Throughout this seminar, CTC Ars Tinctoria highlighted its collaborative efforts and problem-solving approach in addressing these challenges, stressing its commitment to create new technical solutions for the future that encompasses various aspects discussed throughout the event, including durability, chemical management, and inspection services. ●



Part of our Italian team

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Focus on the bio-based quantification

Gustavo Adrián Defeo
Scientific Director
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CTC Ars Tinctoria offers a solution on the basis of EN16640 standards for the assessment and the classification of materials according to their bio-based carbon content. Here is a summary of the methodology applied by Gustavo Defeo, CTC Ars Tinctoria Scientific Director, and his latest findings.

Results and methodology of a recent study on the quantification of radiocarbon in leather and other fashion materials, published in Coatings (a MDPI magazine) and International Leather Maker (July-August 2023).

The study, initiated in 2018 by Ars Tinctoria S.r.l, alongside an examination of European regulatory trends on circularity and sustainability under the Green Deal policy, highlights the necessity for materials sectors to adopt a new analytical perspective aligned with the concept of bioeconomy. This shift emphasizes the importance of achieving zero waste and carbon neutrality by studying the intrinsic contribution of materials and considering all possible end-of-life options.

The choice for this research was to understand the inherent circularity of materials and processes to avoid any greenwashing temptations. True circularity involves a sequence of events, with CO₂ compensations only considered as a last resort, after exhausting other options for achieving carbon neutrality. By dissecting each step of the circular process, it's possible to manage environmental impacts more effectively, considering factors such as electricity, water, heat, and transportation individually.

Indeed, while it's important to distinguish between bio-based and fossil carbon, this alone is insufficient for understanding materials environmental performance. Biomass content must also be taken into account for accurate calculations (which is part of CTC Ars Tinctoria's new research). A comprehensive understanding of end-of-life options, including recycling, energy recovery (and consequent greenhouse gas generation), and biodegradability (and the impact of the degradation products), is essential for thoroughly assessing environmental impact.

Radiocarbon quantification of materials

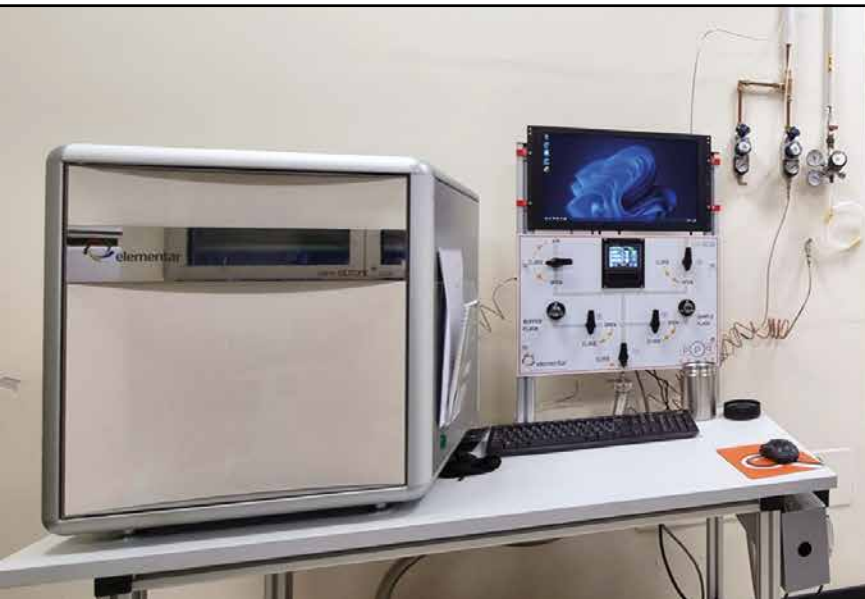
Reflection within the circular economy framework focuses on understanding the roles of fossil-origin carbon and biomass. To address this need, the CEN TC 411 commission developed standard CEN/TS 16640 for determining the bio-based carbon content of products using the radiocarbon method. Seeking advanced technology support such as Accelerator Mass Spectrometry (AMS) and Liquid Scintillation (LS), Ars Tinctoria S.r.l collaborated with the National Institute of Optics in Florence on the new SCAR solution (Saturated-Absorption Cavity Down Spectrometry). This innovative radioactive carbon analyser allows the

quick determination of fossil/bio-based carbon ratios, thus surpassing the limitations of other methods.

This transparent parameter provides a quick insight into a material's circularity. The authors thus decided to develop a method for comparing results obtained for different types of leather and alternative materials, following the article written by Messrs. Meyer, S. Dietrich, H. Schulz, and A. Mondschein: "Comparison of the technical performances of leather, leather alternatives, and other innovative materials" published in the MDPI journal's Coatings.

Table 1
ARS TINCTORIA'S SCAR MATERIAL STUDY RESULTS

Sample	%N	%C	pMC % Biobased
EVA "vegan" sole	4.6	61.6	0.2
Pod Leaf	1.1	71.3	17.7
Desserto	3.1	52.5	24.1
Appleskin	2.0	59.6	25.4
Volar Bio Ultraleather	0.9	56.9	27.8
Ultraleather fusion	1.4	53.1	44.8
Coated patent leather	8.4	53.5	47.1
Noani	0.2	47.1	58.2
Mix synthetic-natural fabric	7.8	50.2	61.0
Fully syntan tanned leather	10.7	58.8	65.6
Vegea	2.6	64.6	67.9
SnapPap	1.1	46.7	75.9
Salmon skin	13.5	49.0	82.4
Goatskin suede	12.4	41.8	83.7
Ecotan shoe upper leather	10.9	51.7	85.7
Sueded split leather	11.4	47.4	87.2
"Parma" baby calf leather	9.2	48.8	89.9
Soft milled leather "Rave"	11.8	58.2	92.6
Vachetta leather "Tolano"	8.9	50.9	94.8
Minerva box veg tan	8.5	55.3	95.9
Nebraska article veg tan	11.5	47.3	100.3
Kombucha	0.03	41.6	102.2
Chestnut traditional tanning	8.9	49.1	103.3



CTC Ars tintoria, a wide range of services, particularly for bio-based quantification

The paper in Coatings MDPI

This article titled “Materials’ Circularity: A Novel Method for Biobased Carbon Quantification on Leather, Artificial Leather, and Trendy Alternatives” is the result of collaboration between Ars Tintoria S.r.l. and the National Institute of Optics in Florence (CNR-INO), as well as the European Laboratory of Nonlinear Spectroscopy (LENS), the University of Florence, and ppqSense (a CNR-INO spin-off company). The authors are Federico Carcione, Iacopo Galli, Saverio Bartalini, and Davide Mazzotti, with the coordination and support of Gustavo Adrian Defeo, currently Scientific Director of CTC Ars Tintoria.

The paper begins by focusing on environmental policies before explaining SCAR spectroscopy principles and the analytical method for miscellaneous materials developed by the authors. For the validation, they chose commercial materials covering approximately the whole 0-100 pMC (parts of modern carbons) range in regular intervals (see Table 1). A preliminary verification under the microscope allowed the authors to choose the samples to compare based on the homogeneous distribution of each microstructural component, then compare the results obtained with SCAR spectrometry and AMS. The matching between both instruments was comparable within a very narrow gap. All tests were done once and no tests were repeated during the experiments, demonstrating the robustness of the system.

In conclusion, the article presents results on the bio-based carbon content of various materials covered by Meyer et Al. Additionally, it includes the analysis of leather samples ranging from heavily coated leather to nubuck, splits, and salmon skins, each subjected to various tanning methods (including metal-free, chrome, and full vegetable).

Table 1 (page 8) presents detailed results. ●

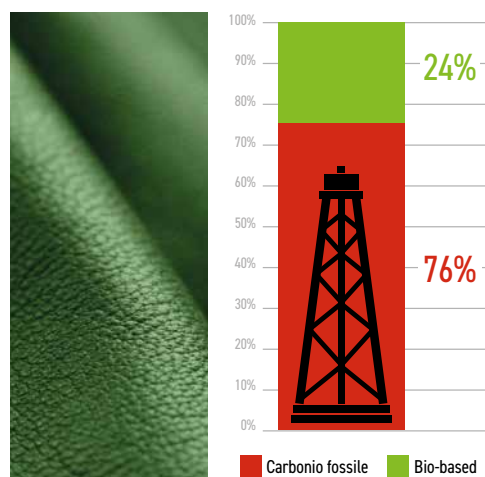
Full article
www.mdpi.com



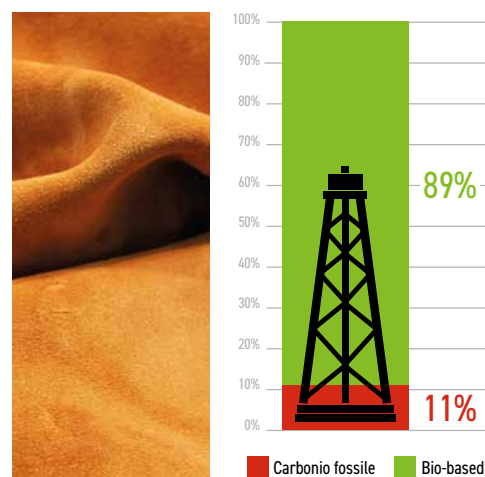

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Esempio di risultati

Materiale alternativo da cactus



Pelle nubuck conciata al cromo



New CTC offering

ZDHC PROGRAMME TESTING SERVICES

CTC Ars Tinctoria helps you comply with ZDHC wastewater and chemical guidelines

The leather and textile industries are under increasing pressure to minimize their impact on the environment and improve the sustainability and reliability of supply chains. Particular attention is paid to the use of chemicals that may be released into wastewater in leather product manufacturing processes.

Many initiatives have emerged to reduce these impacts, the most comprehensive being the ZDHC programme (Zero Discharge of Hazardous Chemicals). It supports the implementation of sustainable chemistry and best practices in the leather and textile industries to protect consumers, workers and the environment. The number of brands and companies joining this program is growing and today reaches 320 signatories.

Two standards based on the implementation of laboratory tests have been set up:

- One for chemicals used in manufacturing
- One for wastewater discharged at the exit of the tannery or manufacturing process

Our complete European offer

CTC Ars Tinctoria is a ZDHC referenced laboratory in Italy for the chemical product section and in France for the wastewater section.

Contact us:

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FRANCE - Valérie Ladavière
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CTC's PPE Days in France and China

CTC PPE Seminars in Lyon - France

On 30 November and 1 December 2023, CTC organised the 16th PPE Footwear Day and the 8th PPE Glove Day at its headquarters in Lyon, to present developments in standards and legislative changes, giving the hundred or so participants a better understanding of developments in the PPE market.

Every year, these PPE days are attended by our French and European PPE clients.

DEVELOPMENTS IN PPE FOOTWEAR STANDARDS

On 30 November, the latest developments in PPE footwear standardization were detailed. With the publication of standards EN ISO 20344 in December 2021 and EN ISO 20345, 20346 and 20347 in March 2022, these documents are now well known.

After repositioning the crucial role of harmonised standards, Jean-Claude Cannot (then Director of Standardization and Certification) explained the changes and improvements that will appear in amendments 1 to these standards at the beginning of 2024, to correct several editorial errors:

EN ISO 20344

- New ergonomic test (kneeling)
- Precision for the water penetration test (for hybrid footwear, results, height of water, etc.)
- Clarification of the malleolus protection test (size, position)
- Correction to the abrasion resistance test for insoles

EN 20345, 20346 and 20347

- Clarification on the assessment of toe caps after testing
- Hybrid footwear, upper requirement reinstated
- WVP correction on the surface of non-breathable areas
- Clarification on the assessment of metal inserts after flexing
- New requirements for malleolar protection
- Ergonomic requirement on the stone guard sole
- New product information.

Within two years, the other standards covering specific risks (firefighters, lumberjacks, motorcyclists, etc.) will also be revised to refer to the new EN ISO 20344, 20345, 20346, 20347 and Regulation (EU) No. 2016/425.



A strong presence of our French and European clients at PPE Days in Lyon

DEVELOPMENTS IN PPE GLOVES STANDARDS

Jean-Claude Cannot presented the latest developments in protective glove standardization on 1 December.

Activity is currently intense. Unfortunately, the new procedures for harmonising standards introduced by the European Commission have considerably complicated the situation:

- The amendment to ISO 21420:2020 (general requirements) has been published by ISO but has not yet been validated by CEN.
- Amendment 1 to EN 407:2020 (thermal hazards) is awaiting publication.
- The two standards EN 659 (firefighters) and EN 12477 (welders) should be sent for a formal vote.
- The public enquiries for the revision of EN ISO 374-1 (chemical hazards) and EN ISO 374-5 (biological hazards) have been completed and are awaiting the formal vote phase.
- The new standard EN ISO 374-6 for hairdressers should be definitively published before the end of 2024.

On the other hand, the revision work on EN ISO 13997 (cut resistance test, Tomodynamometer machine) has been completed; the revised standard was published in July 2023. This publication entails the revision of EN 388. This standard will be replaced by the future EN ISO 23388 (probably in 2025), which will incorporate the new TDM test as well as a new test for gloves resistance to hypodermic needlesticks.



A strong presence of our Asian clients at PPE Days in China

DEVELOPMENTS IN CERTIFICATION

The major development in Regulation (EU) 2016/425 is the introduction of EU type-examination certificates with a validity of five years. Since the first certificates were issued in 2018, the first renewals began in April 2023.

It was therefore important for CTC to provide very practical details of the conditions and procedures for renewing EU certificates. Didier Guisado (Director of PPE Certification and Standardization) therefore presented the procedures applied by CTC:

- Timetable: the manufacturer must launch its renewal procedure between 6 and 12 months before the termination date.
- Conditions for renewal by simplified procedure (no product modification, no changes to standards, no validity period for test reports).
- Publication of the 3rd edition of the application guide to the PPE regulation (format of the instructions for use, module C2, gloves and clothing for welders).
- Consequences of the publication of new standards, whether harmonised or not, etc.

Other subjects were also addressed, and many questions were asked to clarify complex situations:

- The non-obligation to use harmonised standards and the non-obligation to recertify in the event of revision of a harmonised standard.
- Changes to the REACh regulation (regulated chemical substances): the legislation will take increasing account of PFASs (per- and polyfluoroalkylated substances).
- The European Commission has asked notified bodies to comply with a new procedure for certification in accordance with module C2. From now on, PPE can only be marketed once the AET has been obtained and the first production homogeneity check has been carried out. This last point is contested by the coordination of Notified Bodies.
- The situation is currently confused when it comes to PPE instructions for use. Until now, this document had to be included with the PPE in paper form. Until there is a clear position from the European Commission, Notified Bodies still apply the requirement of user instructions in paper format. ESF (European Safety Federation) is currently preparing a clarification paper.
- UKCA: the situation has recently changed: the British government has further relaxed its requirements, and CE marking alone is now sufficient for marketing in the UK. ●

CTC PPE Seminars in Shanghai and Dongguan - China

Following the PPE Days held in France, CTC China organised two PPE seminars on safety gloves and footwear on 26 and 28 February, in Shanghai and Dongguan respectively.

The following topics were discussed at these events.

PROTECTIVE GLOVES SEMINAR

- Information about Standardization and Technical Committees
- Situation of standards for gloves protecting against mechanical, electrical and sport activities risks
- Revision of: EN 12477 (Welders), EN 659 (Firemen), EN ISO 374-1 (Dangerous chemicals), EN ISO 374-5 (micro-organisms and other risks)
- New standard EN407:2020 (Thermal risks)
- Upcoming Standard EN ISO 374-6 (hairdressers)
- Guidelines of PPE Regulation (October 2023): Users Instructions, module C2, Gloves for Welders
- PFAS (REACh)
- UKCA Marking

SAFETY SHOES SEMINAR

- Information about Standardization and Technical Committees
- Amendment A1 of: EN ISO 20344-2021 & EN ISO 20345/6/7-2022
- Renewal/update of certificates
- Guidelines of PPE Regulation (October 2023):
 - Users Instructions
 - Module C2
- PFAS (REACh)
- UKCA marking. ●

Did you miss these events? For more information on the seminars, contact us:

Flora Liu - CTC China Marketing
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Changes in the CTC's PPE team

These latest editions of the PPE Days marked the retirement of Jean-Claude Cannot, Technical Director for Standardization and Certification, who has worked with CTC for 28 years.

Following Jean-Claude Cannot's departure, the department's activities have been reorganized. Below are the contacts for your PPE needs in Europe and Asia.

YOUR PPE CONTACTS AT CTC



FOR PPE STANDARDIZATION

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Director of PPE Certification and Standardization

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INTERNATIONAL RECOGNITIONS



Notified body n°0075 PPE (CE Marking)

COFRAC accreditation for certification activities based on standard **EN ISO 17065**

CTC international laboratories are accredited according to **EN ISO 17025**

Accreditations :
COFRAC (FR)
HOKLAS (HK)
CNAS (CN)
CMA (CN)



Shanghai: N° L4577
Dongguan: N° L5912

N° 2016192132Z
N° 2013091119Z

Inspections in accordance with the **EN ISO 17020** standard (CNAS)

Notified by :



* Refer to the list of laboratories on departmental licensing management sites.



CTC is a member of the coordination of the European Notified Body for gloves, footwear and garment

A word from JEAN-CLAUDE CANNOT



It is with some sadness, but with a sense of achievement, that I leave you in good hands. I'm sure that Didier, William and the whole CTC team will continue to provide you with the service and information you need to continue developing your PPE. *Good luck to you all!*





INSPECTIONS AND AUDITS

CTC guidelines integrates best international practices & sampling plan according to EN ISO 17020: MIL STD-105E / ISO 2859 / NF X06-022

Short deadlines:

within 72 hours, we will be on the production site in Asia or Europe.

Client response deadline:

within 24 hours, we will submit customized reports with digital pictures and comments.

Contact us:
inspections@ctcgroupe.com

In an international environment where business transactions are becoming increasingly complex, safety inspections and technical audits secure your manufacturing, retail, and distribution purchases of Personal Protective Equipment products. Wherever the inspection takes place, our knowledge of European certification ensures that your PPE products comply with European regulations, as well as CE marking and PPE documentation.

With more than 20 years of expertise in Personal Protective Equipment products manufacturing, CTC inspectors are specialists in safety footwear, gloves and garments and related safety products like motorcycle items. Our expertise enables us to work with the main distributors & key actors of the safety & sport industry.

PRODUCTS INSPECTIONS

CTC inspectors check the conformity of your PPE products at any production stage:

- Pre-run and raw material inspection
- Inline inspection
- Final random inspection
- Loading inspection

FACTORIES TECHNICAL AUDITS

CTC auditors evaluate factories:

- PPE products manufacturing capacity
- International regulations & brand technical specifications integration
- Logistics management
- Quality systems
- Production processes and tools
- Products safety and compliance policy

CTC inspections and audits are carried out in the following countries	
EUROPE	ASIA
Spain	Turkey
Portugal	Bangladesh
Italy	India
Poland	Pakistan
Czech Republic	China
	Taiwan
AFRICA	Vietnam
Tunisia	Cambodia
Morocco	Indonesia
AMERICA	Thailand
Mexico	Myanmar



Fotolia © kadiny

CERTIFICATION OF YOUR PRODUCTS

You need to certify PPE products, 8 reasons to work with CTC:

- 1. CTC has issued more than 38,000 CE certificates** for safety footwear, protective gloves and protective garment since 1992. We are one of the earliest **Notified Bodies** for PPE with number 0075 working under ISO 17065 procedure. A measure of confidence you can have in our company.
- 2. We work with more than 800 companies** from around the world helping them to build the best personal protective equipment (Europe, USA, China, Vietnam, India, South Africa, Turkey, ...).
- 3. CTC accredited laboratories** under EN ISO 17025 are located in **strategic manufacturing and sourcing areas**. CTC proposes the most complete offer for PPE gloves, footwear and garment.
- 4. The professionalism and the accuracy** of our own physical and technical tests help our customers to **produce the safest PPE footwear**.
- 5. We test and certify** at the same time, so you save time.
- 6. CTC has large experience of the innocuousness testing** in materials and products. The European legislation is the most severe legislation in the world. CTC will help you to define the right critical substances to test. The integration of safety requirements will enable you to guarantee the **conformity of the products according to Annex XVII of REACH**.
- 7. We contribute to the production of certifications rules and standards** for France, Europe and internationally.
- 8. CTC is Convenor or member** for the main **standardization technical committees** (European CEN and ISO) for gloves, footwear and garment.

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GARMENT
GLOVES
FOOTWEAR

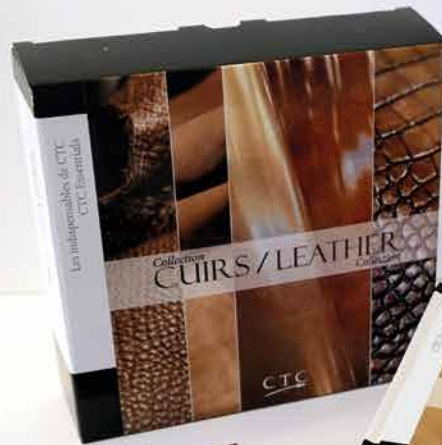


CTC is notified for the control of **footwear, gloves and garment** and therefore, CTC is able to check the compatibilities of these PPE in particular hazardous situations.

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