

Other services :

Cleaning products and detergents

- Analysis and measurement of the properties of cleaning products and detergents
- Comparative test of performances
- Recognized methodologies and technics of analysis are applied and developed from standards, decrees and european regulation.

Cleaning appliances and machineries

- Studies and Performances tests of household appliances and professional cleaning machineries
- Comparative tests

Professional training and consultancy

- Industrial laundry (private, health sector, associations, ...)
- Professional cleaning, dry cleaning, small size laundries, ...
- Cleaning and hygiene of housing

To complete these activities, CTTN provides the following works :
Applied researches and innovations, technology survey, standardization, dedicated to the professional textile care industry : dry cleaning, small laundry, industrial laundry



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Institut de Recherche
sur l'Entretien et le Nettoyage
Avenue Guy de Collongue - BP 41
69131 ECULLY Cedex - FRANCE
Tél. +33 (0)4 78 33 08 61 - Fax +33 (0)4 78 43 34 12

www.cttn-iren.com

Textile department

Textile and cleaning Cleaning control



The technological institute CTTN is a non-profit organization, independent and neutral, specialized in the scope of the textile care. CTTN is a singular structure dedicated to the textile care industry and to the consumers, but also to upstream actors as manufacturers and distributors.

Its skill is based on three main expertise field : **textile / cleaning product / cleaning equipment and processes**, completed by the cleaning of the dishes, hard surfaces and housing and by the hygiene in the health houses.



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CTTN has then a precise and complete vision of the "cleaning world", continuously renewed, and offers it to its customers and to other actors.

Textiles and cleaning

The studies and tests offered by CTTN in this field targets the behavior and possible alterations of stuffs, textiles items, garments and accessories when they are submitted to cleaning, drying and finishing processes, and also during wearing or using. Such studies and tests are realized according to standards (NF, EN and ISO) and also according to methodologies developed by CTTN.



Performances of textiles and garments submitted to cleaning processes

The study of the behavior of textile item when they cleaned or used is based on several criteria linked to the textile characteristics.

Que ce soit à l'état neuf, après entretien et/ou après usage.

These criteria are measured or evaluated by experts according to standards or some other methodologies and according to the cleaning processes used.

Example of criteria :

- Dimensional stability
- Colors
- Aspects (several criteria)
- Wrinkling

Cleaning processes used :

- Household cleaning
- Professionnal : dry cleaning and wet cleaning
- Industrial laundry

Including : spotting, cleaning, washing, drying, finishing.

Laboratory tests

To study the textile behavior, its characteristics and their evolutions, CTTN is able to propose numerous tests :

Example of tests :

- Surface mass, title
- Mechanical resistance, abrasion & pilling tests
- Degree of polymerization
- Color fastness
- Soil protection
- Wrinkling & ironing abilities

Other possible evaluations of efficiency :

- Elasticity, conservation of shape
- Spotting products and apparatus
- Anti-wrinkling sprays
- Cleaning agent for carpet and other floors
- ...



Analysis of damaged items

Origin and cause of the damage :

- Manufacturing failure
- Cleaning recommendation error, unsuitable care label
- Incident during cleaning
- Incident during wearing or using

Washing process control

The industrial laundry manages the washing process to optimize both the washing efficiency and the durability of the treated textile items. In that aim CTTN proposes two tools :

Textile test pieces

It allows to evaluate the chemical and the mechanical effect of the washing process on the treated linen. These are 100% cotton test pieces offering defined and known characteristics (chemical, mechanical, whiteness).

Repeated washing cycles are done introducing a same textile tests piece each time in the washing process and the following criteria are measured at the end of the washing cycle :

- Chemical and mechanical aggression
- Mineral incrustation (wearing, touch)
- Whiteness, yellowing

Soiled test pieces

Combination of textile squares including soils of different types (grease, pigment, oxidizable, proteinic, ...) which allow to highlight different aspects and parameters of the washing process to evaluate : bleaching, temperature, mechanical action, chemical effects.

Such test pieces offer the possibility to check the constancy of the washing process regarding soil removal.



From its triple skill CTTN is placed to the center of the cleanliness and of the textile and garments cleaning. This thematic is in connection with the industrial laundry and health sectors, the dry cleaning sector, the household cleaning including producers, manufacturers, distributors and consumers and the textile and garment industry. CTTN acts also in the field of the dishes and hard surfaces cleaning and of the hygiene of housing.

All these aspects of the cleaning industry are integrated in the service offering of CTTN which performs currently researches, tests, expertizing, training, consultancy and audit for all the actors of these above mentioned activities.

Beyond the processing management, productivity, performances and convenience, CTTN develops a transverse offer on scopes as sustainability, environment, quality and hygiene management, specifically in the industrial and professional textile cleaning sectors.

Do not hesitate to take contact. Numerous other tests can be proposed on demand.
secretariat@cttn-iren.fr

