

Bureau Veritas



Who are Bureau Veritas?



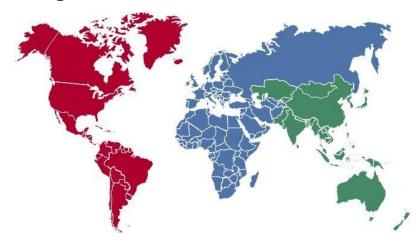
KEY FACTS & FIGURES

- 2015 revenue:
- €4.6 billion
- **66,500** employees
- **1,400** offices and laboratories, in **140** countries
- **400,000** clients
- 8 global businesses with leadership positions
- Bureau Veritas is listed on the Euronext Paris stock exchange (Stock symbol: BVI).

Created in 1828, Bureau Veritas is a **global leader in Testing**, **Inspection and Certification (TIC)**, delivering high quality services to help clients meet the growing challenges of quality, safety, environmental protection and social responsibility.

As a trusted partner, Bureau Veritas offers innovative solutions that go beyond simple **compliance with regulations and standards**, reducing risk, improving performance and promoting sustainable development.

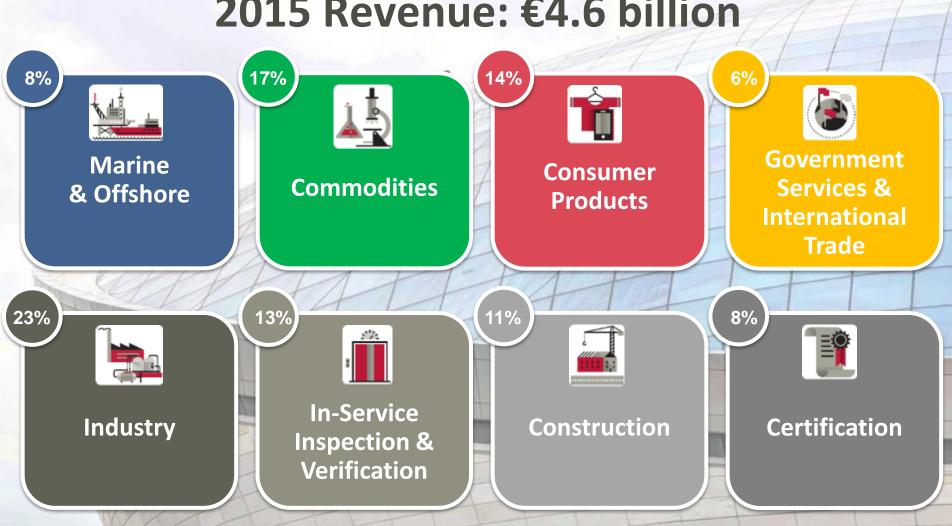
Bureau Veritas core values include integrity and ethics, impartial counsel and validation, customer focus and safety at work.
Bureau Veritas is recognised and accredited by major national and international organisations.



A large portfolio of businesses







The Group



The World's Leading Group in providing conformity assessment and certification services with extensive network of 930 locations across 140 countries



Americas

- 200 locations, including 100 laboratories
- 10,800 staff
- 30 countries



EMEA

- 520 locations, including 120 laboratories
- 20,500 staff
- 88 countries



Asia-Pacific

- 210 locations, including 110 laboratories
- 16,700 staff
- 22 countries

The Group

Consumer Products Services



Certification



Marine



Industry



In-Service Inspection & Verification



Construction



Government Services & International Trade

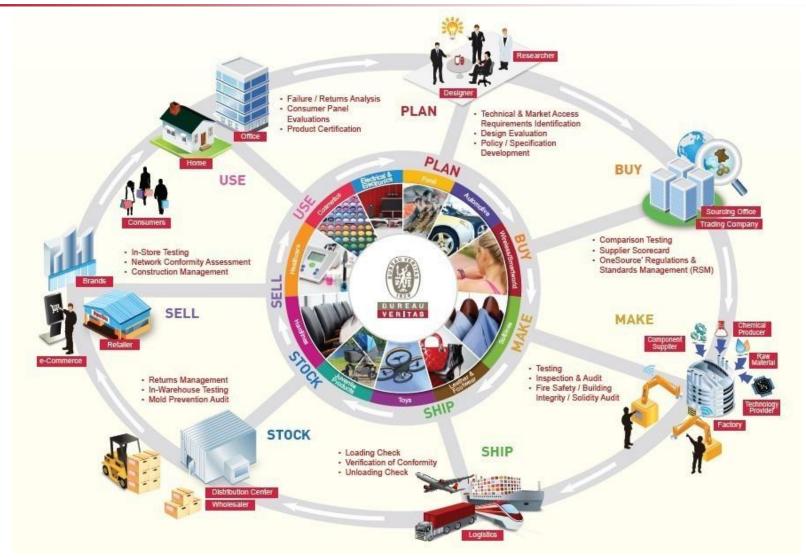


Commodities



Consumer Products Services (CPS) – Life Cycle Support





Added Value • Faster to Market • Optimum Profits

Bureau Veritas CPS in the World



12,000+ CPS employees in over 120 offices and labs servicing 40 countries worldwide



BVCPS is a global leader in providing QHSE & Sustainability services to the retail industry:

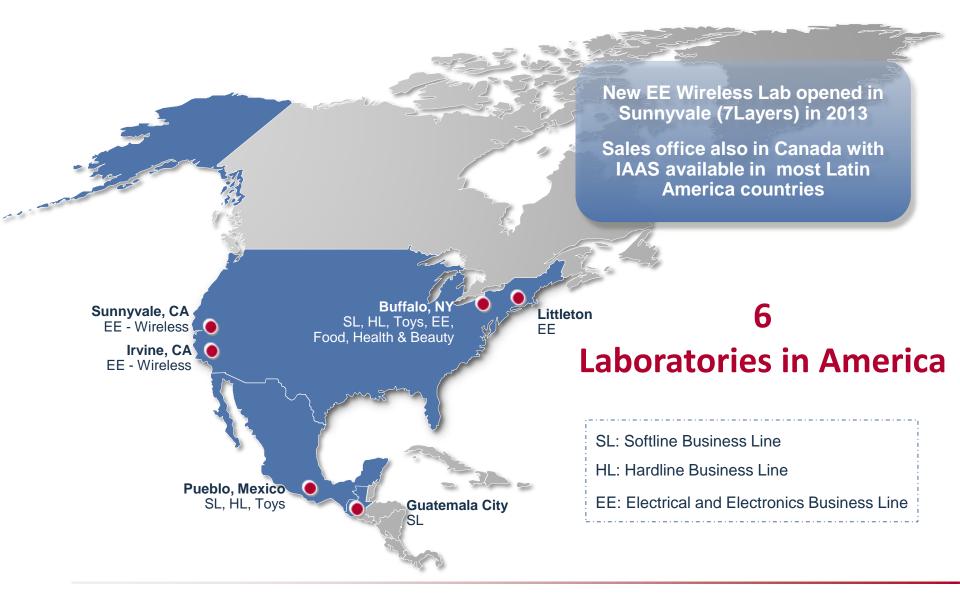
- 23 of the Top 25 Best Global Brands**
- 22 of the Top 25 Global Retailers*
- 22 of the Top 25 Retailers in North America*

^{*} Source: National Retail Federation (NRF) 2013 Top 100 Retailers and Top 250 Global Retailers (less supermarket/food chains)

^{**} Source: Interbrand 2013 Top 100 Best Global Brands (#s consists only of those brands relative to the retail industry)

Bureau Veritas Consumer Products Services – America





Bureau Veritas Consumer Products Services – Middle East and Africa







2 Laboratories in Middle East and Africa

Bureau Veritas Consumer Products Services – China



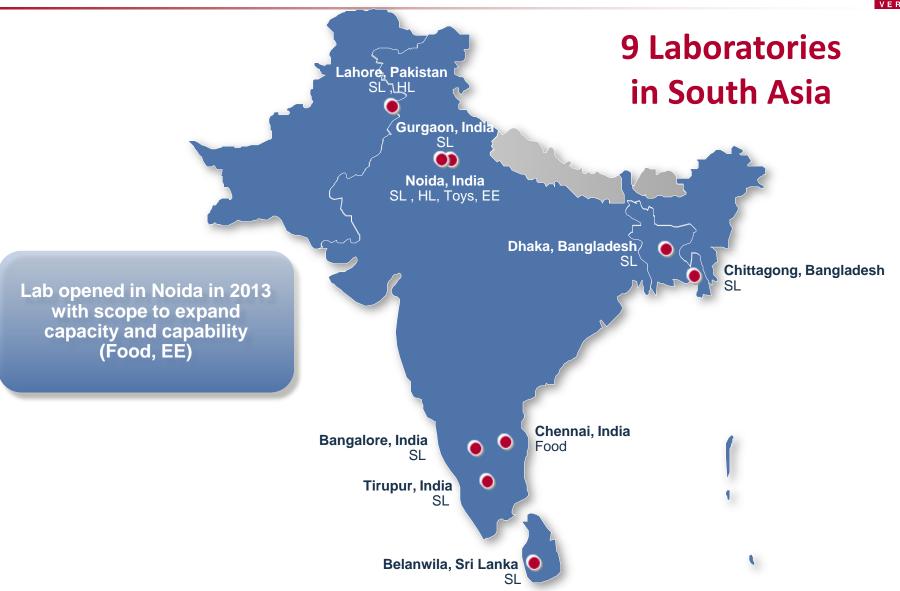
27 labs shown SL lab in Quanzhou opening in Q3 HL lab in Zibo opening in Q3 New auto lab in SH opened in 2014

Additional IAA/Sales office locations in Banqiao (Taiwan), Chengdu, Cixi (with subcon E&E lab), Foshan, Fuzhou, Guangzhou, Hangzhou, Hong Kong, Ningbo, Shanghai, Shantou, Shenzhen, Tianjin, Wenzhou, Xiamen, Yiwu and Yongkang



Bureau Veritas Consumer Products Services - South Asia





Bureau Veritas Consumer Products Services – East Asia





Bureau Veritas Consumer Products Services – North-East Asia





Bureau Veritas Consumer Products Services – Europe





Worldwide Update: BV One Source (BVOS)





OneSource Suite modules support you in optimizing your supply chain and making informed and timely decisions:

OTRD: Order Tracking, Reporting & Dispositioning

RSM: Regulatory & Standards Management

PTF: Product Technical Folder

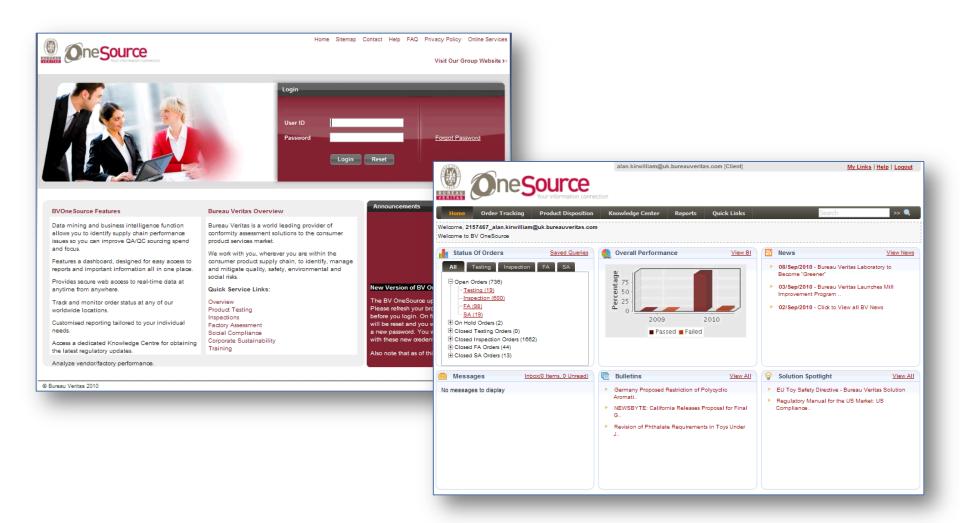
eCOM: eCommerce Online TRFs

The original, the best and the most comprehensive online supply chain quality management platform for the retail / consumer goods industry

BV One Source (BVOS)



One Source for Supply Chain Information

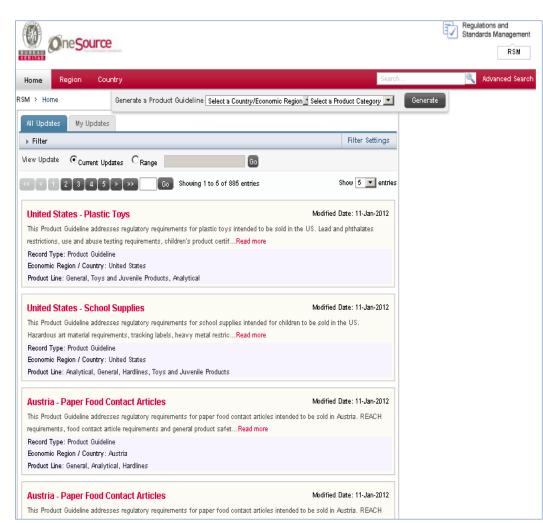


Regulations and Standards Management (RSM)



RSM Features and Functions:

- Instant Access to Product Requirements by Region, Country or Product
- Subscribe only to the Products and Countries you Need
- Real Time Maintenance of Information
- Quick and Advanced Searching Options





BV Smart: the Bureau Veritas App



The new **mobile App** from Bureau Veritas Consumer Products Services developed to let You Stay up-to-date with the latest regulatory and legislative changes impacting the consumer products supply chain.

To download BV Smart for free:

- iTunes: https://itunes.apple.com/us/app/bv-smart/id980300644?ls=1&mt=8
- Google Play: https://play.google.com/store/apps/details?id=com.BVUK.bvcps&hl=en_GB
- Microsoft Store: https://www.windowsphone.com/en-gb/store/app/bv-smart/fcd3a5f3-35ef-4164-a808-86d2b2465a26





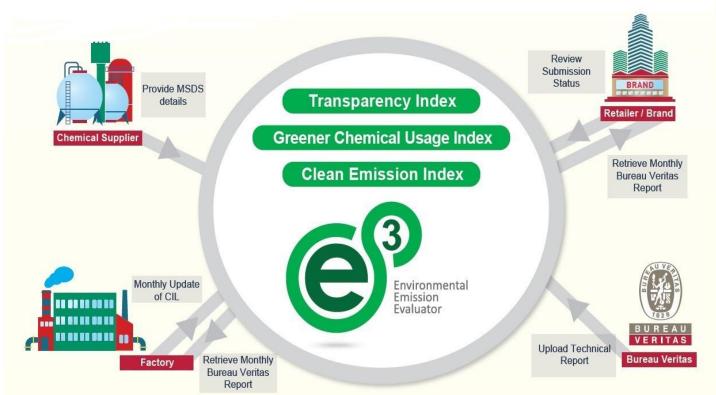
New Exclusive Tool: Environmental Emission Evaluator (BVE3)



PRO-ACTIVE • UNIQUE • CONTINUOUS IMPROVEMENT

International brands and retailers, under continuous watch of governmental and non-governmental organizations, need to work with supply chain partners to reduce such environmental impacts, sustain controls over the use of toxic chemicals and proactively eliminate these chemicals from the

supply chain.





TECHNICAL REVIEW

"BVE3 is the only commercial model available that can systematically estimate the discharge scenarios of multiple pollutants for the textile processing industry."

"...created based on the most up to date and authoritative emission scenario document in the industry, together with the team's highly valuable expertise in the corresponding industrial processes."

"In addition to its good algorithm and module design, the BVE3 generates effective estimations for discharge scenarios and possesses a range of additional features to accommodate flexible input types, select the appropriate calculation parameters and screen / track major hazardous chemicals in the system."

"...BVE³ provides a very economical way to estimate the discharge scenarios in the textile processing industry."





Move Forward with Confidence

Testing Laboratory, Inspections, Audits & Consultancy Services



Providing expert quality assurance services to the Fashion & Luxury worlds

Address

Via Risorgimento, 16 - Ponte a Egola 56024 SAN MINIATO (PI) **Italy** Phone: 0039 (0)571 49626

E-Mail: cpsinfo@certest.bureauveritas.com web site: www.bureauveritas.com/cps www.certest.it; http://certest-elims.it

Opening Hours

Monday-Friday 08:00-13:00 / 14:00-18:30





With a surface of about 1500 square meters, Bureau Veritas Certest CPS employs about 40 people including highly specialized technicians.



Testing Laboratory



Providing expert quality assurance services to the Fashion & Luxury worlds

Thanks to a constant update on technical and normative evolutions, tests can be performed in conformity with different Official Methods (UNI, EN, ISO, GB, GB/T, QB/T, CPSC, BS, JIS, DIN, etc.).

Product Areas

- Apparel
- Accessories (Handbags, SLG, Belts...)
- Footwear
- Jewellery

And all related raw materials:

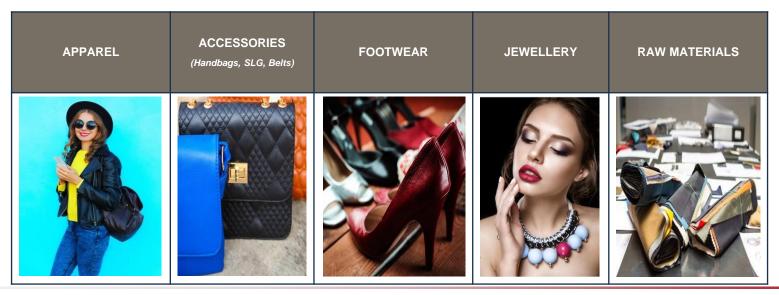
- Leather
- Textile
- Hardware
- Components
- Trims

Test lead times

Indicatively, Standard lead time for tests and report is 5 working days.

As additional service especially thought to answer to specific customers needs, quicker procedures are foreseen:

- "Urgent 3 days"
- "Express 1 day"



Full Capability List





Mod 003/P603_HH 04_10/03/

ELENCO PROVE / LIST of TESTS 2017

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Prove per il settore CALZATURE PELLETTERIA	1.1 Prove FISICO-MECCANICHE 1.1 PHYSICAL-MECHANICAL tests			
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AREA on LEATHER	1.3 Prove CHIMICHE ed ECO-TOSSICOLOGICHE 1.3 CHEMICAL and ECOTOSICOLOGICAL tests			
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CALZATURE E COMPONENTI 1. Tests for FINISHED PRODUCT:	3.2 COMPONENTI (TOMAIO, FODERA, SOTTOPIEDE e SOTTOPIEDE DI PULIZIA) 3.2 COMPONENTS (UPPER, LINING, SOCK and INSOLE)			
FOOTWEAR and COMPONENTS	3.3 COMPONENTI (SUQLE, TACCHI, SOPRATACCHI, LACCI, CERNIERE, ACCESSORI 3.3 COMPONENTS (SOLES, HEELS, TOP PIECES, LACES, ZIPS, ACCESSORIES)			
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PROVE per II MERCATO CINESE-conformità agli STANDARD GB, ES TESTS for CHINESE MARKET-conformity to GB STANDARDS, PERFC				
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VIA Riscoglimenco, 18, 56008, las Minato (Pig. 104) - 181. - 181





#Direttore General



Capability Overview

Providing expert quality assurance services to the Fashion & Luxury worlds a continuous effort to improve our service

New capabilities, developed in the last few months in various areas:

- **Softline Testing** Fiber Analysis, Colourfastness, Shrinkage, Physical tests.
- Safety Testing Flammability of Clothing Textiles, Use and Abuse Tests, Slide Fasteners,...
- Analytical Testing Inorganic and Organic tests.







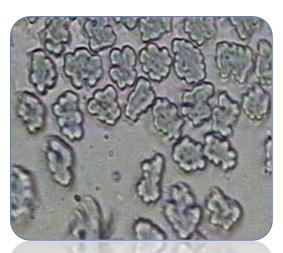
Capability Overview, Softline Testing

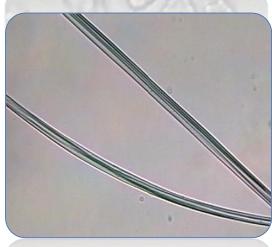


Providing expert quality assurance services to the Fashion & Luxury worlds a continuous effort to improve our service

FIBER ANALYSIS					
TEST	METHOD				
Fiber composition	EN ISO 1833#				
Fiber Analysis: Qualitative	AATCC 20#				







Bureau Veritas Certest CPS Italy Capability Overview, Softline Testing



Providing expert quality assurance services to the Fashion & Luxury worlds a continuous effort to improve our service

COLOURFASTNESS TEST (partial list)

	'			
TEST	METHOD			
Colour fastness to artificial light	UNI EN ISO 105-B02			
Colour fastness to cycles of to-and-fro rubbing	UNI EN ISO 11640			
Colour fastness to cycles of to-and-fro rubbing	UNI EN ISO 105-X12			
Colour fastness to perspiration	UNI EN ISO 11641			
Colour fastness to perspiration	UNI EN ISO 105-E04			
Colour fastness to water	UNI EN ISO 11642			
Colour fastness to water	UNI EN ISO 105-E01			
Colour fastness of small samples to solvents	UNI EN ISO 11643			
Colour fastness to dry cleaning using perchloroethylene solvent	UNI EN ISO 105-D01			
Colour fastness to domestic and commercial laundering	UNI EN ISO 105-C06			
Colour fastness to water spotting	UNI EN ISO 15700			
Colour fastness to spotting: water	UNI EN ISO 105-E07			
Colour fastness to migration into plasticized poly(vinyl chloride)	UNI EN ISO 15701			
Assessment of migration of textile colours into polyvinyl	UNI EN ISO 105-X10			
Change in colour with accelerated ageing in Climatic Chamber	UNI EN ISO 17228			
Assessment of the potential to phenolic yellowing of materials	UNI EN ISO 105-X18			
Determination of resistance to surface wetting (spray test)	UNI EN ISO 4920			
Colour fastness to Hot pressing	EN ISO 105 X11			





Capability Overview, Softline Testing



Providing expert quality assurance services to the Fashion & Luxury worlds

a continuous effort to improve our service

SHRINKAGE TEST (partial list)

TEST	METHOD
Dimensional Stability to Washing	ISO 6330
Dimensional change in washing and drying	ISO 5077
Preparation marking and measuring of fabric and garments	ISO 3759
Assessment of performance after cleaning and finishing	ISO 3175-1
Procedure for testing performance when cleaning and finishing using tetrachloroethene	ISO 3175-2
Dimentional change of fabrics induced by free-steam	ISO 3005







Capability Overview, Softline Testing



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PHYSICAL TEST (partial list)

**	•
TEST	METHOD
Flex resistance	UNI EN ISO 5402-1, ISO 17694
Abrasion resistance (Martindale)	UNI EN 13520, UNI EN ISO 12945-2
Pilling Box Method	EN ISO 12945-1
Determination of maximum force and elongation at maximum force using the strip method	UNI EN ISO 13934-1
Determination of the slippage resistance of yarns at a seam in woven fabrics	UNI EN ISO 13936-1
Tear Properties of Fabrics (Elmendorf)	UNI EN ISO 13937-1
The Elasticity of Fabric	EN 14704-1
Determination of coating adhesion	UNI EN ISO 2411
Test for adhesion of finish	UNI EN ISO 11644
Determination of stitching resistance of flexible leathers	UNI 10606
Determination of tensile strength and percentage extension	UNI EN ISO 3376
Determination of tear load - Part 1: single edge tear	UNI EN ISO 3377-1
Determination of tear load - Part 2: double edge tear	UNI EN ISO 3377-2







Capability Overview, Safety Testing



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FLAMMABILITY TEST

TEST	METHOD
Flammability of Clothing Textiles	16 CFR 1610





Capability Overview, Analytical Testing



Providing expert quality assurance services to the Fashion & Luxury worlds a continuous effort to improve our service

INORGANIC TEST (partial list)

•••	<u> </u>
TEST	METHOD
Determining Total Lead (Pb) in non-metal	CPSC-CH-E1001-08.3: 2012
children's products	CPSC-CH-E1002-08.3: 2012
Determining Lead (Pb) in Paint and Other Similar Surface Coatings	CPSC-CH-E1003-09.1: 2011
Chemical determination of metal content	UNI EN ISO 17072-2: 2011
Chemical determination of metal content Chemical	DIN EN 16711-1: 2014
Determination of cadmium. Wet decomposition method	UNI EN 1122: 2002
Determination of Baneful Elements-Method of Spectrometry-Part 6 Total heavy metal (Pb, Cd, Hg, As)	GB/T 28021: 2011
Determination of some tanning metals on an aqueous eluate (Cr, Al, Ti, Zr)	UNI 10888: 2001
Chemical determination of extractable metal	UNI EN ISO 17072-1: 2011
Chemical determination of extractable metal	DIN EN 16711-2: 2014
Determination of Baneful Elements-Method of Spectrometry-Part 7 Released heavy metal	GB/T 28021: 2011
Migration of certain elements - Determination of heavy metals	UNI EN 71-3: 2014
Determination of pH. Determination of difference figure (ΔpH)	UNI EN ISO 4045: 2008
Determination of pH of aqueous extract	GB/T 7573: 2009
Determination of pH of aqueous extract	UNI EN ISO 3071: 2006
Test methods for the assessment of ecological criteria (determination of total metal content)	UNI EN 14602: 2012 par. 4.1





Capability Overview, Analytical Testing



Providing expert quality assurance services to the Fashion & Luxury worlds a continuous effort to improve our service

ORGANIC TEST

Determination of organotin compounds in footwear materials Determination of phthalates in footwear materials Determination of the phthalate content. Tetrahydrofuran method Determination of Phthalates Determination of ethoxylated alkylphenols. Part 1: Direct method APEO (NPEO, OPEO) Determination of ethoxylated alkylphenols. Part 2: Indirect method AP (NP, OP) Determination of ethoxylated alkylphenols. Determination of ethoxylated alkylphenols. Determination of ethoxylated alkylphenols. Determination of ethoxylated alkylphenols. Determination of extractable perfluorooctanesulphonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams. Perfluorinated compounds by LCMSMS Determination of fluorotelomer alcohol (FTOH) with GCMS Determination of pentachlorophenol content and other chlorinated phenols tetra, tri, di and mono substituted Detection and detrmination of pentachlorophenol in products in consumption Detection of disperse dyestuffs WINI CEN ISO TS 16181: 2011 UNI EN ISO 14389: 2014 CPSC-CH-C1001-09.3: 2010 ISO 18218-1: 2015 ISO 18218-2: 2015 ISO/DIS 18254-1: 2016 UNI CEN TS 15968: 2010 UNI CEN TS 16181: 2015		
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pentachlorophenol in products in consumption BVL B 82,02-8:2001-06	and other chlorinated phenols tetra, tri, di and	UNI EN ISO 17070: 2015
Detection of disperse dyestuffs DIN 54231: 2005		BVL B 82,02-8:2001-06
	Detection of disperse dyestuffs	DIN 54231: 2005





Capability Overview, Chinese Standards



Providing expert quality assurance services to the Fashion & Luxury worlds a continuous effort to improve our service

New Center of Excellence for China Market: Testing, Consulting and Solutions

TEST	METHOD	INSTRUMENT
Shoe Flexing	GB/T 3903.1	Shoe Flexing Tester
Shoe Abrasion Resistance	GB/T 3903.2	Shoe Abrasion Resistanca Tester
Shoe Peeling strenght	GB/T 3903.3	Shoe Peeling strenght Tester
Shoe Steel Shank Fatigue-Resistance	GB/T 3903.35	Shoe Steel Shank Fatigue-Resistance machine
Insole Backpart Stifness	GB/T 1813	Insole Backpart Stifness Tester
Rockwell Hardness	GB/T 230,1	Rockwell Hardness Tester
Bending	GB/T 28011 section 7.8	Bending Tester
Fibreboard flex cracking resistance	QB/T 1472	Fiber Board Flexing Tester
Cold flex resistance for upper material	QB/T 2224	Freezing Tester for Flexing













China Market Surveillance



Q: Why Product sells in China must comply GB standards?

A: If you products meet inspection by below authorities and test result is failure, you will get in trouble.



China Entry-exit Inspection and Quarantine bureau

Enforcement: At ports

Test Criteria: Mandatory standard

Inspection Rate: 50%~100% by HS code

CIQ

Violation disposition: Recall/Destruction / Media exposure



Bureau of Quality and technical Supervision

Enforcement: At manufacturing stage/ domestic retail market

Test Criteria: Mandatory Standard and product standard

Frequency: Seasonal

QTS

Violation disposition: Stop selling / Destruction/ Media exposure



Administration of Industry and Commerce

Enforcement: At domestic retail market

Test Criteria: Mandatory stanard and product standard

Frequency: Very frequent

Violation disposition: Stop selling / Penalty based on product

Amount(50%~300%)/ Media exposure



China Consumer Association (Under AIC)

Enforcement: At domestic retail market

Frequency: Follow consumer complaints and concerns

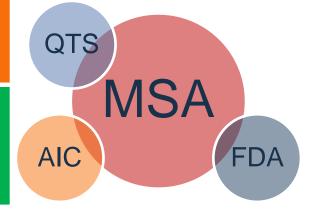
Violation disposition: Media exposure

CCA

China Government plan to make quality system more effective and transparent so 3 government department will convert to MSA(Market Supervision Administration) 市场监管局.

•Many city have finished the combination in base organization in 2016.

•FDA: 食药监



Bureau Veritas Certest CPS Italy Testing Laboratory



Providing expert quality assurance services to the Fashion & Luxury worlds

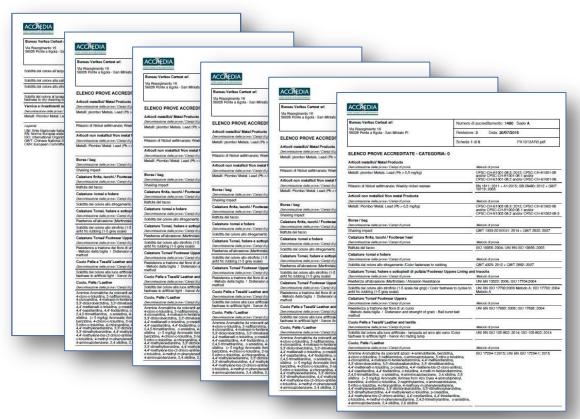
Accreditations

ACCREDIA-ILAC – UNI EN ISO/IEC 17025

Bureau Veritas Certest CPS is accredited by ACCREDIA accreditation to the norm

UNI CEI EN ISO/IEC 17025. Signatory of EA, IAF and ILAC Mutual Recognition Agreements.

Laboratory n. 1480, the up-to-date list of accredited tests is available upon the Accredia official website, inserting the referred lab number, following this link.







Testing Laboratory



Providing expert quality assurance services to the Fashion & Luxury worlds

Accreditations





CPSC US ACCREDITATIONS

Bureau Veritas Certest CPS is accredited by the CPSC American Commission (accreditation lab number 1541), to perform analyses recognized by the American Commissions to import goods in the United States (e.g. according to the Proposition 65 Regulation). For further details and updated list of accredited trials please refer to the specific page on the Official CPSC website, through this link.







CHINA ACCREDITATIONS

Bureau Veritas Certest CPS, with Bureau Veritas Chinese Laboratories, is able to release all Test Reports recognized by the Chinese authorities, both at customs and national market level, by the release of CNAS, CMA + CAL reports (2C and/or 3C reports).

OTHER LOCAL ACCREDITATIONS

Bureau Veritas Certest CPS is able to assist and provide complete services according to the existing local different International legislations and warranting various local different accreditations.



























Toy Industry Association, Inc.































Technical Consultation and Training



Providing expert quality assurance services to the Fashion & Luxury worlds

Bureau Veritas Certest CPS is able to provide **Technical Consultation** and **Training** activities to assist Brands and Supply Chain. We are also able to provide:

- Performance and Chemical compliance Standards
- Restricted Substance List (RSL), Products (PRSL) and Manufacturing (MRSL).







Standard

Compliance

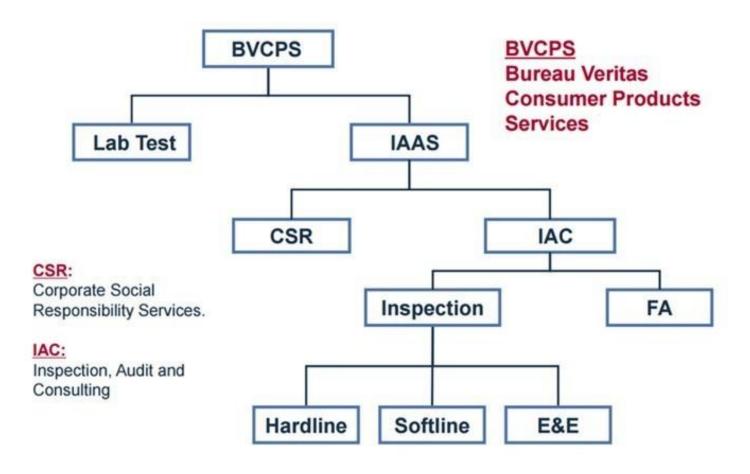
RSL (PRSL, MRSL)





Inspections, Audits & Consultancy Services





Inspections, Audits & Consultancy Services



Audit Services

- Factory Assessment
- 2. Social Accountability Audit
- 3. Security Assessment (C-TPAT)
- 4. Manufacturing Assessment Standard

Factory Assessment (FA)

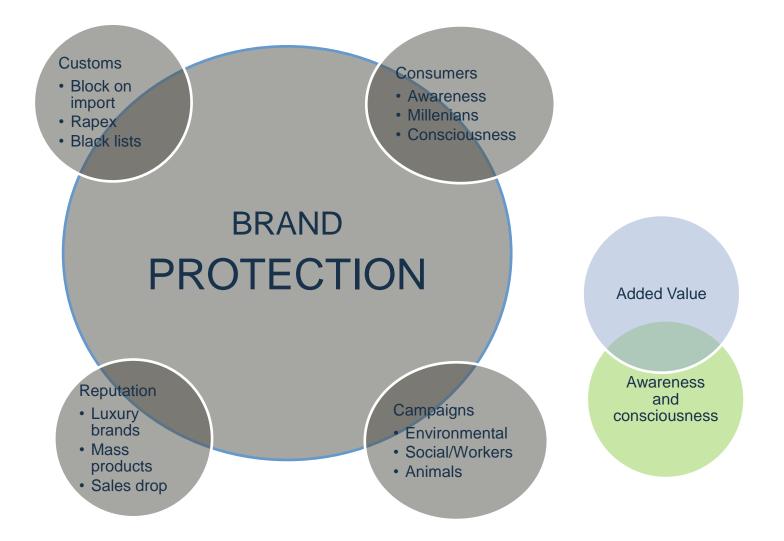


Social Accountability Audit (SA)



Sustainability: The Mission





Sustainability: The Strategy





The brands strategies are based on a different level of commitment that could be summarized in the above macro groups. It's clear that to each level corresponds a different grade of risk for the brand protection. It's up to the brand management take the decision

Sustainability: The Framework



MANDATORY LEVEL		COMPLIANCE								
	П	SUPPLY AGREEMENT								
BASE LEVEL		PRSL	QUALITY PROTOCOL	SOCIAL CODE OF CONDUCT			ENVIRONMENTAL CODE OF CONDUCT			NDUCT
_	H.									
DEFENSIVE	Ш				SUSTAIN	ABILITY TRAINING	PROG	RAM		
DEFENSIVE LEVEL		TESTING PROGRAM	SAFETY PROCEDURE	SELF ASSESSMENT	AUDIT PROGRAM	MANAGEMENT SYSTEM	MRSL	SELF ASSESSMENT	ENVIRONMENTAL PROTOCOL	CHEMICAL MANAGEMENT
	Ц									
TOOL		BV ONE SOURCE BV E3								
	Ш									
PROACTIVE LEVEL		CASE S	TUDIES			STAKE	HOLDE	R AWARENESS		
		ZERO DISCHARGE PROGRAM 2020						2020		
ADVANCED LEVEL	/	TRANSPARENCY								
		SUPPLIERS QUALIFICATION SYSTEM								
	More advanced action plan									
		Traceability					Animal wel	fare		



Move Forward with Confidence