

# Personal Protective Equipment Protective Apparel Testing



Valued Quality. Delivered.

Ensuring the highest  
level of protection



# When it comes to Protective Apparel challenges, Intertek has the solutions.

## Your Challenges

Whether it's worn for sports or job-related activities, as a manufacturer of personal protective equipment (PPE) apparel, it's important to ensure your products keep users safe. Designed to protect wearers from physical, chemical and environmental hazards, PPE apparel items such as helmets, shin guards, work boots and gloves are required to comply with rigorous safety and performance specifications in order to meet industry standards.

## Our Solutions

Intertek offers comprehensive protective apparel testing to meet your global needs for PPE footwear, gloves, clothing and shin guards through our testing labs in China, India, the United Kingdom and United States.

Intertek performs PPE footwear testing for mechanical risks, slip resistance, thermal risks and ergonomic qualities. For gloves, Intertek tests for mechanical, thermal, chemical and micro-organism risks.

We test high visibility, protection against rain, chemical and heat and flame protective clothing for resistance to tear, burst, abrasion and flexing (as pre-treatments), as well as flammability testing to measure resistance to radiant, contact heat, convective heat and electrostatic risks. For football shin guards, we test for ergonomics, sizing, coverage and impact.

Intertek also performs testing for PPE head, eye and face protection items, including sunglasses, ski goggles, safety glasses, swimming goggles, swim masks, bicycle helmets (recreational, BMX, mountain biking), skateboarding helmets, recreational snow sport helmets and ice hockey helmets.

Intertek is accredited\* to test your personal protective apparel to the following standards:

Footwear		Gloves	
EN ISO 20345:2011	Test standard for safety footwear	EN 420:2003+A1:2009	Protective gloves-General requirements & test method
EN ISO 20347:2011	Test standard for occupation footwear	EN 388:2003	Protective gloves against mechanical risk
EN ISO 20349:2010	Test standard for foundry footwear	EN 407:2004	Protective gloves against thermal risk
EN 15090:2012	Test standard for firefighter footwear	EN 12477:2001+A1:2005	Protective gloves for welder gloves
EN 61340:2002	Test standard for ESD footwear	EN 374:2003	Protective gloves against chemical & micro-organism
EN 13832:2006	Test standard for chemical resistance footwear	BS EN 659:2003+A1:2008	Protective gloves for firefighters
EN 13634:2010	Test standard for motorcycle footwear	BS 6526:1998(2007)	Domestic oven gloves
EN ISO 17249:2004+A1:2007	Test standard for chain saw cutting	BS EN 13594:2002	Protective gloves for professional motorcycle riders
BS 7971-5:2004	Test method for footwear use in violent situations	ASTM F2010M-10	Evaluation of glove effects on wearer's hand dexterity
AS/NZS 2210:2009	Australia standard for safety footwear	ASTM D4679-02	Specification for rubber general purpose, household or beautician
AS/NZS 4821:2006	Test method for firefighter footwear	ASTM D5151-06	Medical gloves: detection of holes
ASTM F 2412/3:2011	American standard for safety footwear	ASTM D5250-06e1	Specification for Poly(vinyl chloride) gloves for medical applications
ASTM F2892-11	Test method for soft toe protective footwear	ASTM D6124-06	Medical gloves: residual powder
CSA Z195-2009	Protective footwear	ISO 10282:2002+Cor1:2005	Specification for rubber surgical gloves
JIS T 8101:2006	Protective footwear	ISO 11193-1:2008	Specification for gloves made from rubber latex
JIS T 8103:2010	Test method for anti-electrostatic footwear		
NFPA 1971-2013	Test method for firefighter footwear		
NFPA 1977-2011	Test method for wild land firefighter footwear		

# When it comes to Protective Apparel challenges, Intertek has the solutions.

Clothing	
EN ISO 11612:2008	Protective clothing against heat & flame
EN ISO 11611:2007	Protective clothing for welders
ASTM F1060-08	Protective clothing for hot surface
ASTM F1342-05	Protective clothing material resistance to puncture
EN 863:1995	Protective clothing for puncture resistance
ASTM F903-10	Protective clothing for penetration by liquids
EN ISO 14116:2008	Protective clothing against heat and flame
BS EN 1621-1	Motorcyclists' clothing against mechanical impact – limb joint protectors
EN 1621-2	Motorcyclists' protective clothing against impact – back protectors
EN 14120	Protective clothing – wrist, palm, knee and elbow protectors for users of roller sports equipment
EN 15613	Knee and elbow protectors for indoor sports – safety requirements and test methods
EN 13158:2009	Protective clothing – protective jackets, body and shoulder protectors for equestrian use: for horse riders and those working with horses, and for horse drivers
EN ISO 20471:2013	High visibility clothing
EN 1150:1999	Visibility clothing for non-professional use

Shin Guards	
EN 13061:2009	Football shin guards
NOCSAE DOC(ND) 090-06m12	Football shin guards
Eye Protection	
EN 1836 / EN ISO 12312-1	
AS NZS 1067	Sunglasses
ANSI Z80.3	
EN 174	Ski goggles
EN 166	Safety glasses (mechanical impacts type)
BS5883	Swimming and/or diving goggles
BS4532	Swim masks
Equipment Designed to Prevent Drowning or for use as Buoyancy Aids	
EN 13138-1	Safety requirements and test methods for buoyant aids to be worn (e.g. swim vests, armbands)
Helmets	
16CFR1203	Bicycle helmets
ASTM F 1447	Helmets Used in Recreational Bicycling or Roller Skating
ASTM F 1492	Helmets Used in Skateboarding and Trick Roller Skating
ASTM F 2032	Helmets Used for BMX Cycling
ASTM F 1952	Helmets Used for Downhill Mountain Bicycle Racing
ASTM F 1898	Helmets for Non-Motorized Wheeled Vehicle Used by Infants and Toddlers
EN 1078	Helmets for pedal cyclists and for users of skateboards and roller skates
EN 1080	Impact protection helmets for young children
AS/NZS 2063	Bicycle helmets
ASTM F 2040	Helmets Used for Recreational Snow Sports
ASTM F 1045	Standard Performance Specification for Ice Hockey Helmets
CSA D113.2-M89	Cycling helmets

Intertek performs rigorous evaluations and expansive testing to deliver assurance that, even under the most stressful or hazardous conditions, your PPE apparel products will provide sustained protection.

\*full and/or partial accreditation

# Intertek

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At Intertek, our time-tested service, wealth of experience, and depth of knowledge allow us to offer solutions dedicated to helping you navigate the regulatory process. Intertek delivers the precision you need, with the speed to market you are looking for.

For more information  
please contact us

#### Asia Pacific

2/F, Garment Centre  
576 Castle Peak Road  
Kowloon, Hong Kong, China  
Tel: +852 2173 8888  
Fax: +852 2786 1903

#### North America

2107 Swift Drive, Suite 200  
Oak Brook, IL, 60523, USA  
Tel: +1 855 LAB FIND  
(522 3463)  
Fax: +1 630 481 3101

#### Latin America

8600 Northwest 17th Street, Suite 100  
Miami, FL 33126, USA  
Tel: +1 305 513 3000  
Fax: +1 305 513 2856

#### Europe, Middle East, Africa

ECOPARC 2, 27400,  
Heudebouville, France  
Tel: +33 2 32 09 36 36  
Fax: +33 2 32 09 36 37

Email: [consumergoods@intertek.com](mailto:consumergoods@intertek.com)  
Website: [www.intertek.com/consumergoods](http://www.intertek.com/consumergoods)

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