

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<b>INSPEC International Ltd</b>	
	<b>Issue No: 070 Issue date: 20 December 2011</b>	
	<b>56 Leslie Hough Way</b> <b>Salford</b> <b>Greater Manchester</b> <b>M6 6AJ</b>	<b>Contact: Mr A P Diamond</b> <b>Tel: +44 (0)161 737 0699</b> <b>Fax: +44 (0)161 736 0101</b> <b>E-Mail: testing@inspec-international.com</b> <b>Website: www.inspec-international.com</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> 56 Leslie Hough Way Salford Greater Manchester M6 6AJ</p> <p><b>Local contact</b> Mr Andrew P Diamond Tel: +44 (0)161 737 0699 Fax: +44 (0)161 736 0101 Email: testing@inspec-international.com</p>	<p>Testing - PPE Ophthalmic Optical Products Hearing Protection Eye and Face Protection Head Protection (Helmets) Respiratory Protective Equipment Hand Protection (Gloves) Body Protection (Clothing)</p>	S
<p><b>Address</b> 8 Jin Yang East Road Lu Jia Zhen Kunshan Jiangsu China</p> <p><b>Local contact</b> Mr Steven Sum Tel: +86 512 5011 2646 Fax: +86 512 5011 2656 Email: testing.asia@inspec-international.com</p>	<p>Testing - PPE Fall Arrest Systems Head Protection (Helmets)</p>	K



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>OPHTHALMIC OPTICAL PRODUCTS</b>			
Mounted spectacle lenses	Optical and Mechanical Tests	BS 2738-1:1998 BS 2738:Part 1:1989 (withdrawn)	S
Single vision and multifocal uncut finished lenses	Optical Tests	ISO 8980-1:1996 (withdrawn) ISO 8980-1:2004	S
Progressive power uncut finished lenses	Optical	ISO 8980-2:1997 (withdrawn) ISO 8980-2:2004	S
Reading glasses	Optical power tolerances	EN 14139:2002	S
	Performance, compliance with ISO 8980-1:1996	ISO 14889:1997	S
<b>HEARING PROTECTORS</b>	<u>Mechanical and Acoustic Tests</u>		
Ear-muffs		EN 352-1:2002 EN 352-1:1993 (withdrawn)	S
Ear-plugs		EN 352-2:2002 EN 352-2:1993 (withdrawn)	S
Helmet mounted ear-muffs		EN 352-3:2002 EN 352-3:1996 (withdrawn)	S
Level dependent ear-muffs	Excluding: Electrical safety requirements	EN 352-4:2001	S
Active noise reduction ear-muffs	Excluding: Electrical safety and EMC requirements	EN 352-5:2002	S
Active noise reduction ear-plugs	Excluding: Electrical safety and EMC requirements	INSPEC internal procedure TP 1 H023 based on EN 352-5:2002, Section 6 (adapted to cover ear-plugs)	S



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<b>HEARING PROTECTORS (cont'd)</b>	<u>Mechanical and Acoustic Tests</u>		
Ear-muffs with electrical audio input	Excluding: Electrical safety and EMC requirements	EN 352-6:2002	S
	Headset microphone electrical output	INSPEC Test procedure TP 1 H024	S
Level dependent ear-plugs	Excluding: Electrical safety and EMC requirements	EN 352-7:2002	S
Ear-plugs with electrical audio output	Excluding: Electrical safety and EMC requirements	prEN 352-9:2003 & INSPEC internal procedure TP0 H23	S
	Headset microphone electrical output	INSPEC internal procedure TP1 H024	S
Entertainment audio ear-muffs	Excluding: Electrical safety and EMC requirements	EN 352-8:2008	S
	Physical test methods	EN 13819-1:2002	S
	Acoustic test methods	EN 13819-2:2002	S
	Sound attenuation of hearing protectors. Subjective method of measurement.	BS EN 24869-1:1993, ISO 4869-1:1990	S
Entertainment audio ear-plugs	Excluding: Electrical safety and EMC requirements	INSPEC internal procedure TP 1 H023 based on EN 352-8:2008, Section 6 (adapted to cover ear-plugs)	S
<b>EYE AND FACE PROTECTION</b>	<u>Optical and Mechanical Tests</u>		
Occupational and educational eye and face protection	Excluding: Haze	ANSI Z87.1:2003(Superseded) ANSI Z87:2010	S



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<b>EYE AND FACE PROTECTION (Cont'd)</b>	<u>Optical and Mechanical Tests (Cont'd)</u>		
Industrial eye protectors	Excluding: Resistance to fogging of oculars Oculars with enhanced reflectance in the infrared	EN 166:2001	S
	Excluding: Resistance to fogging of oculars	EN 166:1995 (withdrawn)	S
	Excluding: Determination of spectral reflectance in infrared	EN 167:2001 EN 167:1995 (withdrawn)	S
	Excluding: Resistance to fogging of oculars	EN 168:2001 EN 168:1995 (withdrawn)	S
Welding filters	Excluding: Oculars with enhanced reflectance in the infrared	EN 169:2002 EN 169:1992 (withdrawn)	S
Ultra-violet filters		EN 170:2002 EN 170:1992 (withdrawn)	S
Infra-red filters	Excluding: Oculars with enhanced reflectance in the infrared	EN 171:2002 EN 171:1992 (withdrawn)	S
Sunglare filters (professional use)	Excluding: Special transmittance requirements - photochromic filters	EN 172:1994	S
Ski goggles for downhill skiing	Excluding: Resistance to fogging of oculars	EN 174:2001	S
Welding eye protectors		EN 175:1997	S



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EYE AND FACE PROTECTION (cont'd)	<u>Optical and Mechanical Tests (cont'd)</u>		
Laser eye-protectors	Excluding: Stability of filters and frames to laser radiation - Laser products for other than 210 nm <math>\lambda</math> > 3000 nm - Spectral transmittance for scale numbers L7 to L10 at $\lambda = 210$ nm to 780 nm - Spectral transmittance for scale numbers L5 to L10 at $\lambda = 780$ nm to 3000 nm Filters with angular-dependent transmittance	EN 207:1998 prEN 207:05/98 (withdrawn) EN 207:1993 (withdrawn)	S
Laser adjustment eye-protectors	Excluding: Stability of filters and frames to laser radiation Filters with angular-dependent transmittance	EN 208:1998 EN 208:1993 (withdrawn)	S
Switchable or dual luminous transmittance welding filters	Excluding: Switchable filters for which particular states cannot be set Minimum luminous transmittance Luminous transmittance Switching time of welding filters with switchable scale number Dark state scale number settings of welding filters with automatic scale number setting Manual control of dark scale number Angle dependence of luminous transmittance (optional requirement) Spectral sensitivity of welding filters with automatic scale number setting	EN 379:1994 (withdrawn) EN 379:2003	S
Mesh eye-protectors	Excluding: Nickel release	EN 1731:2006	S



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<b>EYE AND FACE PROTECTION (cont'd)</b>	<u>Optical and Mechanical Tests (cont'd)</u>		
Sunglasses and sunglare filters for general use	Excluding: Nickel release Special transmittance requirements - photochromic filters	EN 1836:2005	S
Eye protectors for snowmobile users	Excluding: Resistance to fogging	EN 13178:2000	S
Faceshields and visors for use with firefighters' and high performance industrial safety helmets used by firefighters, ambulance and emergency services	Excluding: Enhanced reflectance Abrasion - Taber test Resistance to fogging	EN 14458:2004	S
<b>HEAD PROTECTION (HELMETS)</b>	<u>Mechanical Tests</u>		
Industrial safety helmets	Excluding: Very high temperature Molten metal splash	EN 397:1995	S & K
	Excluding: Electrical insulation Class E	ANSI Z89.1:2009	S
	Excluding: Shell conspicuity for special purposes Retroreflective material Ear-muffs and means of retention (compliance with original specification) Eye and face protection (compliance with original specification) Resistance to ignition of ear and neck protectors Additional personal protective devices (compliance with original specification) Helmets intended for use in extreme high radiant heat environments	AS/NZS 1801:1997	S



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HEAD PROTECTION (HELMETS) (cont'd)	<u>Mechanical Tests</u> (cont'd)		
Industrial bump caps		EN 812:1997	S & K
Helmets for firefighters	Excluding: 4.7.2 Radiant heat test areas 3a & 3b  4.9.2 Protection against molten metal: Areas 3a and 3b 4.10.2 Heat resistance: Area 3a 4.11 Flame	EN 443:2008	
Helmets for firefighters		EN 443:1997 (withdrawn)	S
Helmets for airborne sports		EN 966:1996	S
Helmets for pedal cyclists and for users of skateboards and roller skates		EN 1078:1997 ASTM F1492-08 ASTM F1447-2006 CPSC 16 CFR 1203:03/98	S & K
Impact protection helmets for young children		EN 1080:1997	S
Helmets for equestrian activities		EN 1384:1996 ASTM F1163-04a	S S & K
Protective headgear	Excluding: Chin bar rigidity test	ASTM F1446-08	S & K
Helmets for canoeing and white water sports		EN 1385:1997	S
Mountaineering equipment climbers safety helmets		EN 12942:2000	S
Helmets for equestrian use	Excluding: Durability of quick release mechanisms	PAS 015:1998	S
PSDB protective headwear standard for UK police (2004), public order helmet	Excluding: Flammable Liquid Trap (Clause 8)	PSDB 21/04	S



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>RESPIRATORY PROTECTIVE EQUIPMENT</b>	Mechanical, Physical and Acoustic Properties Practical Performance Tests Visual Inspection		
Full face masks for respiratory protective devices	Excluding: Inward leakage test with SF <sub>6</sub>	EN 136:1998	S
Self-contained open-circuit compressed air breathing apparatus	Excluding: Inward leakage test with SF <sub>6</sub>	EN 136:1989 (withdrawn)	S
Fresh air hose breathing apparatus, full or half mask or mouthpiece	Excluding: High pressure parts	EN 137:1993 (withdrawn) EN 137:2006	S
Compressed air-line breathing apparatus for use with a full face mask, half mask or a mouthpiece assembly	Excluding: Electrostatic properties Exhalation valve leakage	EN 138:1994	S
Continuous flow compressed air line breathing apparatus	Excluding: Electrostatic properties Hood material Inward leakage with SF <sub>6</sub> Protective clothing	EN 139:1994 (withdrawn)	S
Half masks and quarter masks for respiratory protective devices	Excluding: Inward leakage test with SF <sub>6</sub>	EN 14594:2005 EN 14593-1:2005 EN 14593-2:2005	S
Gas filters and combined filters	Excluding: NO <sub>x</sub>	EN 140:1998 EN 140:1989 (withdrawn)	S
Mouthpiece assemblies for respiratory protective devices	Excluding: Exhalation valve leakage	EN 14387:2004	S
Particle filters used in respiratory protective equipment		EN 142:2002	S
		EN 143:2000 EN 143:2000/ + A1:2006	S



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RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	Mechanical, Physical and Acoustic Properties Practical Performance Tests Visual Inspection (cont'd)		
Specification for standard thread connection		EN 148-1:1999	S
Filtering half masks to protect against particles		EN 149:2001	S
Powered fresh air hose breathing apparatus incorporating a hood	Excluding: Electrostatic properties	EN 269:1994	S
Compressed air-Line or power assisted fresh air hose breathing apparatus incorporating a hood for use in abrasive blasting operations	Excluding: Electrostatic properties Resistance to abrasion	EN 271:1995 (withdrawn)	S
Filtering devices with hood for escape from fire	Excluding: Inward leakage (breathing zone) Gas capacity for propanal, hydrogen chloride and carbon monoxide Breathing resistance Integrity of filtering smoke hood at high carbon monoxide concentrations Temperature of inhaled air Pressure changes	EN 403:2004	S
Filtering half masks to protect against gases or gases and particles	Excluding: Inward leakage test with SF <sub>6</sub>	EN 405:2001	S
Self-contained open-circuit compressed air breathing apparatus incorporating a hood	Excluding: Hood material and seams High pressure parts Insulation resistance of non-metallic carrying container Inward leakage test with SF <sub>6</sub>	EN 1146:1997 (withdrawn)	S



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RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	Mechanical, Physical and Acoustic Properties Practical Performance Tests Visual Inspection (cont'd)		
Self contained open-circuit compressed air breathing apparatus incorporating a hood for escape	Excluding: Hood material and seams High pressure parts Insulation resistance of non-metallic carrying container Inward leakage test with SF <sub>6</sub>	EN 1146:2005	S
Half masks without inhalation valves to protect against gases and particles or particles only	Excluding: Inward leakage test with SF <sub>6</sub>	EN 1827:1999	S
Light duty compressed air-line breathing apparatus incorporating helmets or hoods	Excluding: Inward leakage test with SF <sub>6</sub>	EN 1835:1999 (withdrawn)	S
Filter(s) with breathing hose(s) (non-mask mounted filter(s)) - particle filters, gas filters and combined filters - used in respiratory protective devices		EN 12083:1998	S
Light duty compressed air-line breathing apparatus incorporating full face masks, half masks or quarter masks	Excluding: Electrostatic properties	EN 12419:1999 (withdrawn)	S
Powered filtering devices incorporating a helmet or a hood	Excluding: Inward leakage test with SF <sub>6</sub> Intrinsic safety testing of electrical components NO <sub>x</sub>	EN 12941:1998	S
Powered filtering devices incorporating full face masks, half masks or quarter masks	Excluding: Inward leakage test with SF <sub>6</sub> Intrinsic safety testing of electrical components NO <sub>x</sub>	EN 12942:1998	S



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RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	Mechanical, Physical and Acoustic Properties Practical Performance Tests Visual Inspection (cont'd)		
Respiratory protective devices	Excluding: Sections 7, 10 and 11 NO <sub>x</sub> Clause 8.4.6.3 Air-line devices Kinking test	AS/NZS 1716:2003	S
CLOTHING and HAND PROTECTION (Gloves)	<u>Chemical Resistance</u>		
Protective gloves against chemicals and micro-organisms	Breakthrough time (clothing)	EN 369:1993 (withdrawn)	S
	Chemical permeation (Breakthrough time)	EN 374-3:2003 EN 374-3:1994 (withdrawn)	S
	Breakthrough and permeation	ISO 6529:2001 ISO 6529:1990 (withdrawn)	S
	Breakthrough and permeation rate	ASTM F739-99a ASTM F1383-99	S
	<u>Chemical Tests</u>		
	Resistance to chemical penetration	ASTM F903:04 BS ISO 13994:1998 ISO 13994:1998 (withdrawn) ISO 13994:2005	S
		A controlled list of challenge chemicals is maintained by the laboratory	
	<u>Mechanical Risk</u>		
	Abrasion resistance	EN 388:2003	S
	Blade cut resistance	EN 388:1994 (withdrawn)	
	Tear resistance	Clause 6.1	S
	Puncture resistance	Clause 6.2 Clause 6.3 Clause 6.4	



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CLOTHING and HAND PROTECTION (Gloves) (cont'd)	<u>General Requirements</u>	EN 420:2003 EN 420:1994 (withdrawn)	S
	Sizing pH (Non-leather gloves) to EN 1413 Dexterity Hand and glove measurement	Clause 5.1 Clause 4.4.2/4.4.3 (2003) Clause 6.3/6.2 (2003) Clause 6.2/6.1 (2003)	S
	<u>Physical Tests</u>		
	General requirements	EN 374-1:2003 EN 374-1:1994 (withdrawn)	S
	Penetration water or air leak tests	EN 374-2:2003 EN 374-2:1994 (withdrawn)	S
	<u>Chemical Tests</u>		
Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles			
Ventilated and non-ventilated "Gas tight" (Type 1) and "Non-gas-tight" (Type 2) chemical protective suits	Chemical permeation, excluding pre-conditioning (Clauses B.2.1 and B.3.2)	EN 943-1:2002, Clause 4.1	S
Protective clothing against liquid chemicals		ISO 6530:2005 EN 368:1992 (withdrawn)	S
Test methods and performance classification of chemical protective clothing, materials, seams, joins and assemblages	Chemical permeation, excluding pre-conditioning (Clauses 4.2 and 5.2)	EN 14325:2004 - Clauses 4.11 and 5.4.2	S
Clothing with Liquid-tight (Type 3) or Spray-tight (Type 4) connections, including items providing protection to parts of the body only (Type PB [3] and PB [4])	Chemical permeation excluding pre-cleaning	EN 14605:2005 - Clauses 4.1 and 4.2	S

