



# CERTIFICATE OF ACCREDITATION

## ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**INSPEC International Ltd.**  
**56 Leslie Hough Way**  
**Salford Greater Manchester UK M6 6AJ**

has been assessed by ANAB  
and meets the requirements of international standard

## ISO/IEC 17025:2005

while demonstrating technical competence in the field of

## TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1933

Certificate Number



ANAB Approval

Certificate Valid: 07/28/2017-03/31/2019  
Version No. 003 Issued: 07/28/2017



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**INSPEC International Ltd.**

56 Leslie Hough Way  
 Salford, Greater Manchester, UK M6 6AJ  
 Mr. A. P. Diamond Phone: +44 (0) 161 737 0699  
[testing@inspec-international.com](mailto:testing@inspec-international.com) [www.inspec-international.com](http://www.inspec-international.com)

**TESTING**

Valid to: **March 31, 2019**

Certificate Number: **AT-1933**

**HEARING PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<b><u>Mechanical and Acoustic Tests and Visual Inspection</u></b>			
	EN 352-1	Ear-muffs	Anechoic room, Reverberation room, Acoustic duct, Acoustic analyzer, Sound level calibrator, Amplifiers, preamplifiers and loudspeakers, Microphones, FM and Bluetooth transmitters, Graphic equalizer, Acoustic Test Fixtures, Ear muff cycling rigs, Fit and Force Rig, Thermocouple rod, Earplug gauge plate, Audiometer, Hygrometer, Balance, Headforms, Masses, Steel rules and tape measures, Planimeter Timers, Calibrated drops, Steel plates,
	EN 352-2	Ear-plugs	
	EN 352-3	Industrial safety helmet mounted ear-muffs	
Excluding: Electrical safety requirements	EN 352-4	Level dependent ear-muffs	
Excluding: Electrical safety and EMC requirements	EN 352-5	Active noise reduction ear-muffs	
Excluding: Electrical safety and EMC requirements	INSPEC internal procedure TP 1 H023 based on EN 352-5, Section 5 (adapted to cover ear-plugs)	Active noise reduction ear-plugs	
Excluding: Electrical safety and EMC requirements	EN 352-6	Ear-muffs with electrical audio input	
Excluding: Electrical safety and EMC requirements	INSPEC internal procedure TP 1 H023 based on EN 352-6, Section 5 (adapted to cover ear-plugs)	Ear-plugs with electrical audio input	
Excluding: Electrical safety and EMC requirements	EN 352-7	Level dependant ear-plugs	



**HEARING PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Excluding: Electrical safety and EMC requirements	EN 352-8	Entertainment audio ear-muffs	Freezer, Gauge Sticks, Laser plumb bob, Water Bath, Plane parallel spacers
Excluding: Electrical safety and EMC requirements	INSPEC internal procedure TP 1 H023 based on EN 352-8, Section 5 (adapted to cover ear-plugs)	Entertainment audio ear-plugs	
Physical test methods	EN 13819-1	Ear-muffs and ear-plugs	
Acoustic test methods	EN 13819-2	Ear-muffs and ear-plugs	
Sound attenuation of hearing protectors. Subjective method of measurement	BS EN 24869-1 ISO 4869-1	Ear-muffs and ear-plugs	

**EYE and FACE PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<b>Optical and Mechanical Tests and Visual Inspection</b>			
Excluding: Haze Automatic darkening welding filters – transmittance properties	ANSI/ISEA Z87.1	Occupational and educational eye and face protection	Telescope and targets, Spectrophotometer, Transmittance Photometer, Diffusion rig, Reflectometer,
Excluding: Resistance to fogging of oculars; Excluding oculars with corrective effect; Oculars with enhanced reflectance in the infrared	EN 166	Personal eye protection	Dust cabinet, Ballistics rig, Molten metal splash rig and furnace, Focimeter, Headforms, Robustness rig,
Excluding: Resistance to fogging of oculars	EN 166:1995 (withdrawn)	Personal eye protection	Load rig, Field of vision rig, Gas test chamber,
Excluding: Determination of spectral reflectance in infrared	EN 167	Personal eye protection	Split field polarizer rig, Field of vision rig, Thermal radiation rig,

**EYE and FACE PROTECTION**

<b>Specific Tests and/or Properties Measured</b>	<b>Specification, Standard, Method, or Test Technique</b>	<b>Items, Materials or Product Tested</b>	<b>Key Equipment or Technology</b>
Excluding: Resistance to fogging of oculars	EN 168	Personal eye protection	Frame minimum robustness rig, Lateral deformation Test Rig,
Excluding: Oculars with enhanced reflectance in the infrared	EN 169	Welding filters	Falling sand rig, Spectacle frame tester, Visor Misting Rig,
	EN 170	Ultra-violet filters	Radiant heat protection rig, Drop tubes and masses,
Excluding: Oculars with enhanced reflectance in the infrared	EN 171	Infra-red filters	Timers and clocks, Tape measures, Steel rule and Micrometer,
Excluding: Special transmittance requirements - photochromic filters	EN 172	Sunglare filters (industrial use)	Light Box, UV chambers, Digital multimeter, Chart recorder,
Excluding: Resistance to fogging of oculars	EN 174	Ski goggles for downhill skiing	Volumetric glassware, Balances, Thermocouple rod,
	EN 175	Welding eye and face protectors	Thermometer, Burners, Incubator,
Excluding: Nickel release	EN 1731	Mesh eye and face protectors	

**EYE and FACE PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
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	Automatic or dual luminous transmittance welding filters	Freezer, Radiometer, Radius Gauges, Practical performance Gallery, Insulation tester, Lens retention test lever
Excluding: Photochromic filters 4.3 Physiological compatibility 6.2 Local variations in refractive power 10 Resistance to abrasion	ISO 12311 ISO 12312-1	Sunglasses and related eyewear	
Excluding: Nickel release Special transmittance requirements - photochromic filters	EN 1836	Sunglasses and sunglare filters for general use	
Excluding: Resistance to fogging	EN 13178	Eye protectors for snowmobile users	
Excluding: Enhanced reflectance Abrasion - Taber test Resistance to fogging	EN 14458	Faceshields and visors for use with firefighters' and high performance industrial safety helmets used by firefighters, ambulance and emergency services	



**HEAD PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<b>Mechanical, Electrical and Flammability Properties Practical performance and Visual inspection</b>			
Excluding: Very high temperature Molten metal splash	EN 397	Industrial safety helmets	Drop towers for impact and penetration, Accelerometers, Load cells and high speed data acquisition instruments, Drop masses, anvils strikers and penetration strikers, Retention System, Effectiveness and strength rigs, Lateral Deformation Test Rig, Thermal radiation rig, Electrical Insulation test rig, Flammability test rig, Fume cupboard, Inclinator, Ballistics gun, Headforms, LVDT, UV and temperature conditioning units, Thermometers, Timers and clocks, Rules, steel tapes and micrometers, Gauge rods, Balances, Volumetric glassware, Loading and positioning masses, Field of vision gauges, Strain Gauge, Chart recorder, Insulation tester and Frequency modulator, Barometer, Thermo-hygrometers
Excluding: Electrical insulation Class E High visibility	ANSI/ISEA Z89.1	American national standard for industrial head protection	
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	Occupational protective helmets	
	EN 812	Industrial bump caps	
Excluding: 4.7.2 Radiant heat test: Areas 3a & 3b, 4.9.1 Protection against molten metal: Areas 1a and 1b 4.9.2 Protection against molten metal: Areas 3a and 3b, 4.10.2 Heat resistance: Area 3a, 4.11 Flame	EN 443	Helmets for firefighting in buildings and other structures	

**HEAD PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
	EN 443:1997 (Withdrawn)	Helmets for firefighters	
	EN1078, ASTM F1492, ASTM F1447, CPSA 16 CFR 1203	Helmets for pedal cyclists and for users of skateboards and roller skates	
	EN 1080	Impact protection helmets for young children	
	EN 1384	Helmets for equestrian activities	
	ASTM F1163	Protective headgear used in horse sports and horseback riding	
Excluding: Chin bar rigidity test	ASTM F1446	Equipment and procedures used in evaluating the performance characteristics of protective headgear	
	EN 1385	Helmets for canoeing and white water sports	
	EN 12492	Helmets for mountaineers Safety requirements and test methods	
Excluding: Flammable Liquid Trap (Clause 8)	PSDB 21/04	PSDB protective headwear standard for UK police (2004), Public order helmet	
	BS 7928	Specification for head protectors for Cricketers	

**RESPIRATORY PROTECTIVE EQUIPMENT**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<b><u>Mechanical, Physical and Acoustic Properties Practical Performance Tests and Visual Inspection</u></b>			
Excluding: Inward leakage with SF <sub>6</sub>	EN 136	Full face masks for respiratory protective devices	Sodium chloride flame photometer,
Excluding: High pressure parts	EN 137	Self-contained open-circuit compressed air breathing apparatus with full face mask	Paraffin oil penetration test rig,

**RESPIRATORY PROTECTIVE EQUIPMENT**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Excluding: Electrostatic properties, Exhalation valve leakage	EN 138	Fresh air hose breathing apparatus for use with full or half mask or mouthpiece assembly	Practical performance Gallery, Inward leakage rig, Mechanical strength rig,
Excluding: Electrostatic properties; Hood material (mechanical properties); Inward leakage with SF <sub>6</sub> ; Protective clothing – abrasive blasting testing	EN 14594	Continuous flow compressed air line breathing apparatus	Dolomite dust rig, Carbon dioxide analyzer, Noise level measurement rig including Anechoic room, Flammability test rig, Valve leakage test rig, Tensile rig,
Excluding: Electronic switch over warning device testing to EN60079-0 and EN50020; Electrostatic properties; Inward leakage with SF <sub>6</sub> ; Protective clothing – abrasive blasting testing	EN 14593-1, EN 14593-2	Compressed air line breathing apparatus with demand valve	Thermal radiation rig, Gas test rig with appropriate detectors, Anemometer, Apertometer, Balances, Barometer, Breathing machines,
Excluding: Inward leakage with SF <sub>6</sub>	EN 140	Half masks and quarter masks for respiratory protective devices	Cold room, Conditioning cabinets, Dataloggers,
Excluding: NO <sub>x</sub>	EN 14387	Gas filters and combined filters	Flowmeters, Gas flow meters,
Excluding: Exhalation valve leakage	EN 142	Mouthpiece assemblies for respiratory protective devices	Manometers and Pressure gauges,
	EN 143	Particle filters used in respiratory protective equipment	Timers and clocks, Test masses, Headforms,
	EN 148-1	Specification for standard thread connection	Torsos, Volumetric glassware
	EN 149	Filtering half masks to protect against particles	
Excluding: Electrostatic properties	EN 269	Powered fresh air hose breathing apparatus incorporating a hood	



**RESPIRATORY PROTECTIVE EQUIPMENT**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Excluding: Inward leakage (breathing zone); Gas capacity for propanal, hydrogen chloride and carbon monoxide; Integrity of filtering smoke hood at high carbon monoxide concentrations; Temperature of inhaled air Pressure changes	EN 403	Filtering devices with hood for escape from fire	
Excluding: Inward leakage test with SF <sub>6</sub>	EN 405	Filtering half masks to protect against gases or gases and particles	
Excluding: Hood material and seams; High pressure parts; Insulation resistance of non-metallic carrying container; Inward leakage with SF <sub>6</sub>	EN 1146	Self-contained open-circuit compressed air breathing apparatus incorporating a hood for escape	
Excluding: Inward leakage with SF <sub>6</sub>	EN 1827	Half masks without inhalation valves and with separable filters to protect against gases or gases and particles or particles only	
	EN 12083	Filters with breathing hoses (non-mask mounted filters) - particle filters, gas filters and combined filters - used in respiratory protective devices	
Excluding: Inward leakage with SF <sub>6</sub> ; Intrinsic safety testing of electrical components; NO <sub>x</sub>	EN 12941	Powered filtering devices incorporating a helmet or a hood	
Excluding: Inward leakage with SF <sub>6</sub> ; Intrinsic safety testing of electrical components; NO <sub>x</sub>	EN 12942	Powered filtering devices incorporating full face masks, half masks or quarter masks	

**RESPIRATORY PROTECTIVE EQUIPMENT**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Excluding: Sections 7, 10 and 11; NO <sub>x</sub> ; Clause 2.1.7 Protection against explosion	AS/NZS 1716	Respiratory protective devices	

**CLOTHING and HAND PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<b><u>Chemical, Mechanical and Physical Tests and Visual Inspection</u></b>			
<b><u>Chemical Resistance</u></b>			Pressure penetration test apparatus, Permeation test cells, Detectors and data, loggers including gas, chromatograph and spectrophotometer, Thickness test rig, Timers, Balances, Rule, Thermometers, Flowmeters, Water baths, Water leak test, Blade cut tester, Tensile and compression machine, Abrasion tester Gutter test Flammability test rig, Pressure gauge, Conditioning facilities, Thermo-hygrometer, Glove dexterity pins, Loading masses,
Breakthrough and chemical permeation	EN 369 (withdrawn)	Protective gloves against chemicals and micro-organisms	
	EN 16523-1; EN-16523-2; EN374-3 (withdrawn)		
Resistance to chemical penetration	ISO 6529; ISO 16602 Clauses 6.5, 7.5.3, 7.6.2, 7.7 and 7.8; ASTM F739; ASTM F1383-99 (withdrawn) using GC/FID and electrical conductivity ASTM F903; ISO 13994; ISO 16602 Clauses 6.6 and 7.5.4.		

**CLOTHING and HAND PROTECTION**


Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<b><u>Chemical Tests</u></b>			<p>Volumetric equipment</p> <p>For chemical tests: A controlled list of challenge chemicals is maintained by the laboratory</p>
Determination of pH (Non-leather gloves)	ISO 3071		
<b><u>Mechanical Risk</u></b>			<p>Pressure penetration test apparatus, Permeation test cells, Detectors and data, loggers including gas, chromatograph and spectrophotometer, Thickness test rig, Timers, Balances, Rule, Thermometers, Flowmeters, Water baths, Water leak test, Blade cut tester, Tensile and compression machine, Abrasion tester Gutter test Flammability test rig,</p>
Abrasion resistance, Blade cut resistance, Tear resistance, Puncture resistance	EN 388 not including EN 13997		
<b><u>General Requirements</u></b>			<p>Conditioning facilities, Thermo-hygrometer, Glove dexterity pins, Loading masses, Volumetric equipment</p>
pH value, Sizing, Hand and glove measurement; Dexterity	EN 420: Clause 4.3.2, Clause 5.1,  Clause 6.1, Clause 5.2		
<b><u>Physical Tests</u></b>			<p>For chemical tests: A controlled list of challenge chemicals is maintained by the laboratory</p>
General requirements	EN 374-1		
Penetration water or air leak tests	EN 374-2		
Chemical permeation, excluding pre-conditioning	EN 943-1 Clauses 4.1 and 4.2	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	
Resistance to penetration by liquids and liquid repellency	ISO 6530; ISO 16602 Clauses 6.8 and 6.9	Protective clothing against liquid chemicals	
Chemical permeation, excluding pre-conditioning (Clauses 4.2 and 5.2)	EN 14325 Clauses 4.11 and 5.4.2	Test methods and performance classification of chemical protective clothing, materials, seams, joins and assemblages	

**CLOTHING and HAND PROTECTION**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Clothing with Liquid-tight (Type 3) or Spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])	EN 14605 Clauses 4.1 and 4.2	Chemical permeation excluding pre-cleaning	

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT- 1933.



Vice President

