



NFCC
National Fire
Chiefs Council

The professional voice of the
UK Fire & Rescue Service

National Fire Chiefs Council Limited
99 Vauxhall Road
Birmingham
B7 4HW

Firefighters Personal Protective Equipment

Standard, Specification and Requirements

Hazardous Materials PPE

Gas Tight Suit

Specialist PPE Project – Oct 2021

SCOPE

This performance specification describes the requirements for a protective hazardous material gas tight suit for both male and female fire fighters.

The gas tight suit should offer the wearer protection from injuries, which could arise through accidents in the working sector for which the gas tight suit is designed.

The gas tight suit is to be CE marked to BS EN 943-2:2019 *Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols - Part 2: Performance requirements for Type 1 (gas-tight) chemical protective suits for emergency teams (ET)*.

PERFORMANCE REQUIREMENTS

Description and Use

Provision of gas tight suit that meets the general and specific needs of Fire & Rescue Service (FRS) operational personnel.

The product must be suited to the range of activities carried out during emergency response and training operations. The product must be of such design, robustness, material and specification to meet the needs of these operations. It should also be simple to clean, repair and maintain (if appropriate).

All test performance data must be submitted with tender document, please indicate compliant and submitted where requested. All documentation to be in English.

Emergency response PPE is designed, following a suitable risk assessment, to protect firefighters from risks that cannot be removed by other means.

Requirement Reference Number	Requirement	Response Criteria
A1	Gas tight suit, type 1a – ET Compliant to EN 943-2	Evidence from Tenderer shall constitute: (1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline. (2) Detailed Product specification.
A2	Compliant to EN 14126 NB. BS ISO 16073-2 requires wildland clothing to meet the requirements of ISO/TS 11999-2	
A3	The suit provided shall have an integral sock	
A4	Compatibility EN 943-2, section 8 Test Methods For use with self-contained breathing apparatus (compliant to EN136 and EN137) to be worn inside of the suit or respirator (full mask and filter). For use with rubber fire boots compliant to EN 15090:2012. To be compatible with Fire Helmets compliant to EN443.	

Gas Tight Suits - General Requirements		
B1	Tenderers must make items available in all sizes between XS to XXL. To include a facility to provide 'made to measure' for wearers that fall outside standard size ranges. Please refer to 5. Sizing and Special Requirements in Stage 1: Pass / Fail Evaluation Questions at within the ITT.	Evidence from Tenderer shall constitute: <ul style="list-style-type: none"> Detailed Product specification The actual sizing chart to be offered via the Framework that evidences that all sizes required will be supplied.

B2	<p>Each garment will need to be uniquely barcoded in order that the Authority is able to track each garment, particularly if a garment is sent for cleaning, repair and maintenance.</p> <p>The Tenderer must provide an inventory of barcodes with each order delivered and hold a central database of all barcodes assigned to each order for each Participating Authority.</p> <p>If providing cleaning, repair and maintenance services, the Tenderer must use the unique barcodes to enable both the Tenderer and the Authority to track the garments throughout each stage of the respective service provision. This information must therefore be accessible to both the Tenderer and Participating Authority throughout the life of each call-off arrangement.</p>	The Tenderer must provide relevant evidence to demonstrate how the requirement shall be met, and shall include product information of the barcoding system that shall be used to meet the requirement.
B3	The garments shall be supplied with reinforced knee and elbow areas which are built into the garment to provide robust additional protection to these specific areas of the body. The size of the reinforced knee and elbow areas must be proportionate to each size garment.	<p>Evidence from Tenderer shall constitute:</p> <p>Detailed Product specification, which includes a design of the garment to be provided under the Framework, indicating the size and location of the knee and elbow reinforced areas.</p>
B4	The garments shall be supplied with an anti-mist visor. Anti-mist visor inserts are not acceptable.	<p>Evidence from Tenderer shall constitute:</p> <p>Detailed Product specification</p>
B5	The garments must be supplied in colour that differentiates the performance of the suit to other suits to be supplied in Lot 2. Tenderers should also provide details of all colours available.	<p>Evidence from Tenderer shall constitute:</p> <p>Detailed Product specification</p>

Gas tight suits - Additional Documentation

C1	<p>The tenderer shall provide all relevant user documentation and manuals that details how the item is:</p> <ol style="list-style-type: none"> 1. Safely used and adjusted (if necessary) 2. Maintained, including repair if relevant 3. Cleaned <p>All of these to be published in English.</p>	<p>Evidence from Tenderer shall constitute:</p> <p>User documents that come with the product detailing all the requirements (1, 2, and 3 as listed) in English on company headed or branded paperwork</p>
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Gas tight suit - Optional Fire Service Requirement		
D1	To provide a 'pass-through' suitable for connection to an external air supply/self-contained breathing apparatus. Reusable suits only	Evidence from Tenderer shall constitute: (1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline. (2) Detailed Product specification.
D2	To provide gas tight suit with integral boot certified to EN 943-2	
D3	Single use, limited life and reusable options	Evidence from Tenderer shall constitute: Detailed Product specification