

# GSR

*GENERAL SERVICE RESPIRATOR*



**SCOTT**  
SAFETY

# GSR TECHNOLOGY SIMPLY BETTER



- When the United Kingdom Ministry of Defence assessed the changing capability requirements for CBRN individual protection the General Service Respirator programme was born. Scott Safety were one of the two companies selected by UK MoD for an assessment phase project and, building on their considerable background intellectual property, a dedicated Scott team began to develop capability gap focussed solutions across all the Defence Lines of Development.

Scott were then down selected as the Demonstration and Manufacturing partner for the GSR programme and a new suite of technologies has been developed to offer lower user burden, improved systems integration and ground breaking levels of protection; all of this within a design brief to offer better performance combined with simplicity of operation.

The net result is the GSR technology suite delivering:-

**“A quantum leap in capability”**

(General Sir Richard Dannatt: Chief of the General Staff -  
September 2007)

# A WORLD CLASS RESPIRATOR RESPONDING TO FUTURE CHALLENGES

GSR is not an upgrade to an existing design; it is a completely new system based on a revolutionary suite of technologies. Scott Safety have taken current respiratory theory and developed new technologies and new testing methods to ensure that GSR responds to CBRN threats now, and in the future.



Best In Class protection factors for the wearer - significantly higher than the industrial norm.

Twin filter system can be modified, in the field to be compatible with Stanag 4155/ Din 40mm threaded filters allowing filter interoperability

Low breathing resistances - At least 30% lower than the industry norm.

High Drinking rate - typically 3-4 times better than in service products currently.

Visual indicators on twin filters show used/ unused filters.

A single flexible lens that offers a wide field of vision with 100% lateral vision, downwards vision greater than 60% and binocular vision in excess of 65%

Excellent integration with sighting systems, night vision goggles and other associated equipments.

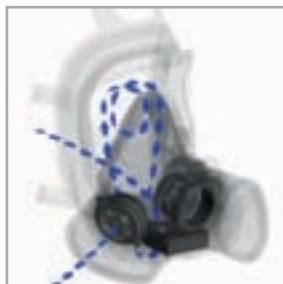
*"Not only does GSR provide protection to previously unprecedented levels, it also offers significantly reduced physiological burden to the user, better field of view and easier communication."*

Phil Strudley, CBRN Team Leader

## MORE THAN A MERE GAS MASK... A SUITE OF TECHNOLOGIES



Patented secondary filter system offers highest levels of particle protection and automatically removes sweat from the mask.



Low breathing resistance ensures wearer comfort. Design of airflow minimises misting.



Twin filters with shut off valve enable filters to be changed without holding your breath, closing your eyes or the direct aid of a "buddy".



### Designed with the User in mind

To develop the innovative GSR solution that provides comfort, protection and performance we very much started with the requirements of the end user. Then we assessed every element of the design and applied the latest technologies to provide comfortable, low burden equipment so the wearers can focus on the task in hand.

## OUR FOUNDATION IS OUR TECHNOLOGIES

### OUR MISSION IS EXPANDING YOUR CAPABILITIES

#### SCOTT TECHNOLOGIES EMBODIED IN GSR



##### FILTRATION

High performance filtration technology allows for high protection and low inhalation resistance in a simple to change filter mechanism



##### FACE SEAL

Self regulating twin primary seals provide increased protection and comfort for long duration wearing. Built in features enable simple mask / suit hood integration



##### INLINE SECONDARY FILTRATION

'Mask within a mask' system combined with patented secondary filtration technology allows for unrivalled levels of protection and automatic sweat clearance



##### EXHALATION VALVE

Twin exhalation valves provide a clean 'airlock'. Ensure leak tight exhalation and low resistance



##### COMMUNICATIONS

Integration with Respiratory Protection Equipment communication systems ensures full operational capability



##### CORRECTIVE VISION

A simple to use corrective vision capability, including progressive lenses, ensures all wearers have a clear view of their operational environment.



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