

Activated Carbon Fabric (ACF)

Chemical Warfare Agents (CWA) are man-made highly toxic chemicals that are fast acting on exposure and sometimes lethal even at low levels. Developing lightweight flexible adsorbent material can open the window for the development of lightweight, comfortable and enhanced chemical protective ensemble which allows the first responder to respond swiftly to evolving threats in the field. Through extensive research, development and testing, Defence Research and Development Establishment (DRDE), Gwalior has developed Activated Carbon Fabric (ACF), an adsorbent material. ACF has many advantages over other commercial porous material in terms of adsorption capacity, well defined microporous structure, stability, flexibility and ease of lamination to various substrates. This material can be utilized in the NBC Suit and other protective ensembles as an adsorbent layer. The developed continuous length ACF has Tear Strength minimum 1 kg and Surface Area >850 m²/g. ACF absorbs the toxic chemicals in particular gases and vapours when they come in contact at room temperature.

Interested Industries are requested to **forward their Expression of Interest (EOI) with supporting documents as per Appendix 'D' of DRDO Policy and Procedure for ToT available at <https://www.drdo.gov.in/transfer-technologies> to Director, Defence Research and Development Establishment (DRDE), Gwalior** with a copy to Director, Directorate of Industry Interface and Technology Management (DIITM), DRDO HQ on following addresses:-

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