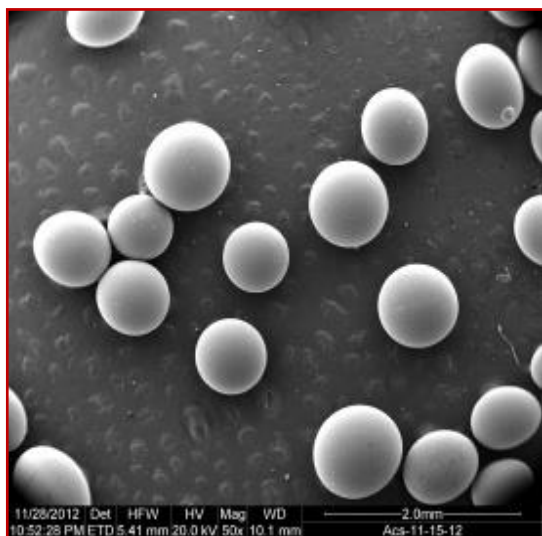


NBC Suit Mark V

1. Description of Technology: DRDE has developed advanced version of NBC suit for effective protection of personnel in NBC scenario. The conventional NBC suit with powdered active carbon as the adsorbent has many drawbacks viz heat stress, low mechanical strength, wearing-off carbon adsorbent, low protection, etc. On the other hand, Activated carbon sphere (ACS) coated fabric has many advantages viz resistance to wear, tear and laundering, provide effective protection barrier, more air permeability/ physical comfort and light weight.



Activated Carbon Spheres



NBC SUIT (MARK-V)

In view of this DRDE has developed indigenous technology at its pilot plant facility for the production of ACS required for the NBC suit coating. The ACS process technology has been transferred to industry for bulk production for NBC Suit Mark-V.

NBC permeable suit based on state-of-the-art technology of ACS beads sandwiched between the fabric layers having high adsorption capacity, leading to much higher protection levels in comparison to NBC Permeable Suit MK-IV has been successfully developed. The salient features of developed NBC Suit Mk V are: indigenous, excellent chemical agent protection, light weight, high adsorbent ACS, oil and water repellency, fire retardant, physical comfort, launderability, anti-static, high resistance and stability.

2. Application Areas: NBC Suit is useful for Indian Armed forces, Paramilitary forces and homeland security in case of CW and BW emergency.

3. Its USP - such as Certifications and test results etc.: The indigenously developed NBC Suit Mark-V has undergone user's trials successfully.