



# Take a Deep Breath

## Lifesaving civil and military applications

Clean, breathable air is as precious as life itself. Haycarb's standard and impregnated activated carbon products for personal protection remove harmful or toxic gasses from air in civil and military applications. We manufacture both granular and extruded activated carbon products with high surface area, as well as impregnated activated carbons, for this market. Product applications include:

- Industrial respirators
- Military applications
- Self-contained breathing apparatus and self-contained underwater breathing apparatus (SCBA and SCUBA)

### Industrial Respirators

Our products adsorb noxious gases and vapors from contaminated air streams. Impregnated carbons are effective in neutralizing and/or scavenging toxic agents including (but not limited to) hydrogen

cyanide, hydrogen sulfide, chlorine gas, sulfur dioxide and ammonia, while standard carbons provide for the physisorption of organic vapors such as carbon tetrachloride.

Our specialized range of carbons for industrial respirator canisters includes types A,B, E, K and all-purpose ABEK. We also provide specific grades to meet the requirement of NIOSH certification.

### Standard EN14387 Multigas Performance Data

Gas	Type	Inlet Concentration (ppm)	EN14387 Standard (minutes)	Coal Based (minutes)	Haycarb (RPPU) Results (minutes)
C6H12	A2	5000	35	47	49
HCN	B2	5000	25	62	57
SO2	E2	5000	20	29	31
NH3	K2	5000	40	42	47

Note: Testing was done using EN14387 conditions with a 300cc fill volume.



The highly developed micropore structure of our activated carbon and controlled chemical impregnation process conditions ensure the uniform adsorption of gasses by the internal surfaces of the pore structure and maximize adsorption capacity. The accurate size distribution and hardness of our products ensures uniform pressure drop across the filter and prevents gas channeling to ensure consistently high performance.

### Military Applications

Haycarb supplies activated carbon for military suits and masks to protect against chemical fallout. Our range of carbon products are designed to protect against blood agents such as hydrogen cyanide, cyanogen chloride, arsine, the nerve agent Sarin and the tearing agent Chloropicrin. We also use in bunker air filters for protection against toxic materials. In addition to our general line of products, we have the ability to develop products for specialized requirements.

Product range consists of impregnated carbons for enhance performance. We provide custom designed products for specific customer applications within the general range.

### Packaging

Standard packaging is designed primarily to prevent deterioration of accurately graded granules and preclude the adsorption of moisture or atmospheric contaminants. Other packaging criteria can be accommodated on request.

**Bulk Bag**  
Net. 500 Kg

**Sacks**  
Net. 25 Kg

### Product Testing Services

Haycarb's Research & Development laboratories in Sri Lanka and its overseas subsidiaries are equipped to perform all the standard testing required for Activated Carbons together with any other specialized product or application related testing requirements.

### SCBA and SCUBA

Activated carbon is used to remove residual oil and other organic contaminants from the compressed air used in self-contained on-land breathing apparatus as well as scuba gear. Haycarb's range of activated carbon products is used in the final cleaning stage in compressed air filters by the world's leading manufacturers of these apparatus.

We will recommend the most suitable grades to use, depending on the requirements and process conditions.

### Warranty Disclaimer

Please confirm the specification of any particular grade with your representative prior to purchase. The user is responsible for ensuring that the product is correctly specified prior to purchase and Haycarb makes no express warranty as to suitability for specific application.



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