

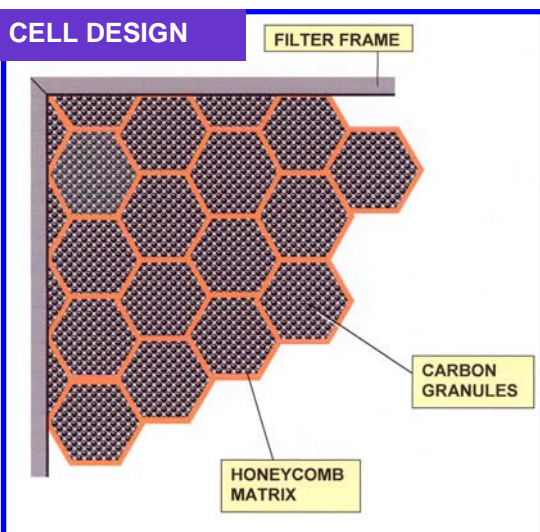
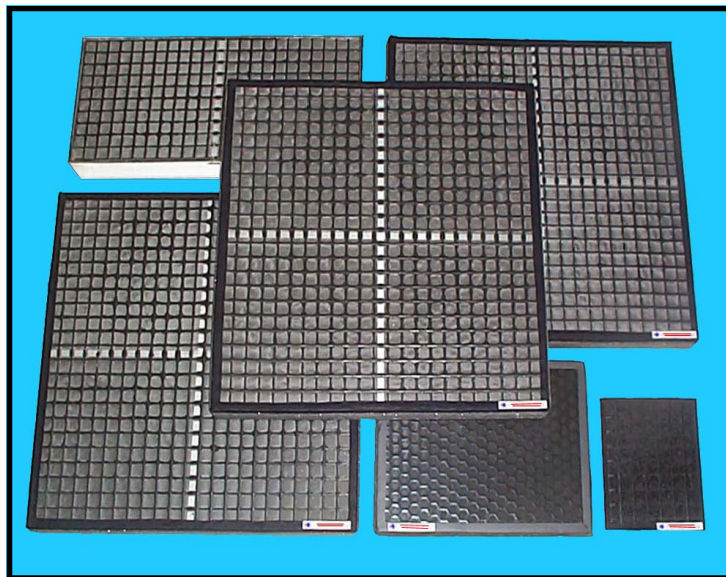
# REPLACEMENT CARBON FILTER CELLS



Activated carbon filter cells manufactured by EMCEL Filters Limited to any size and specification to suit any new or existing filter installation.

With over 45 years technical and practical experience gained in the field of carbon filtration, EMCEL has the knowledge and capability to manufacture a superb range of high quality, high performance replacement filter cells for a broad spectrum of applications.

**Made to Measure -  
Virtually any size, shape and quantity**



## Filter Cell Construction

The unique and patented honeycomb matrix at the heart of the EMCEL filter cell not only creates a strong, rigid and robust holding structure for granular carbon, but also prevents the problems of carbon granule settlement, pinholing and carbon dust liberation that can be associated with conventional loose-fill tray designs.

The complex honeycomb feature also provides a diffuse airflow across the face of the filter cell which ensures that the full charge of carbon contained in the cell is utilised for contaminant removal, thereby maximising filtration efficiency and filter life. Filter edge seals are supplied as standard to prevent air bypassing the filter cells.

High Quality Carbon Standard or Impregnated grades	✓	Carbon granules <b>not</b> stuck together to form bonded carbon slab	✓	Fast Track delivery on request	✓
Galvanised Steel Frames with edge seals	✓	Rigid filter construction prevents distortion	✓	Full technical services available	✓
No carbon settlement leading to loss of filtration	✓	Manufactured under ISO 9001 quality procedures	✓	Free Carbon Life Prediction Service	✓

## Activated Carbon Grades

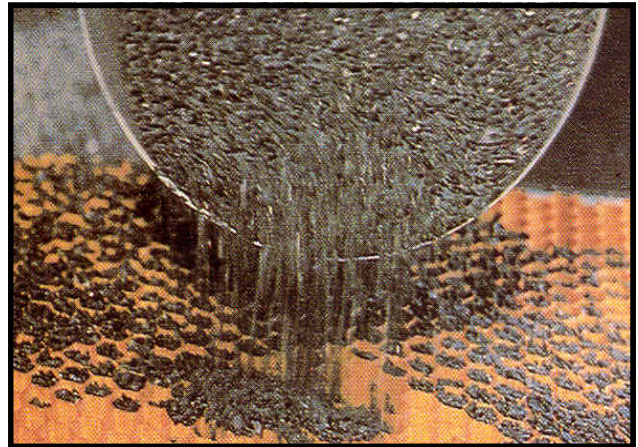
EMCEL filter cells are filled with high quality carbons used in pure granular form.

### Standard Grade

The coconut-shell based carbon used as a standard grade combines the high activity necessary to effectively adsorb a broad spectrum of odours, gases and chemical vapours, with the granular hardness to minimise attrition and carbon dust liberation under the action of airflow.

### Impregnated Grades

In addition to the standard grade, a number of special impregnated carbon grades are available including proprietary impregnated grades developed for the enhanced removal of specific contaminants such as Sulphur Dioxide, Nitrogen Dioxide, Hydrogen Sulphide, Acid Gases, Ammonia, Formaldehyde, Mercury Vapour, Arsine, Phosphine, Toxic Gases and Radioactive Isotopes.



## Technical Service and Support

Extensive in-house test and analytical equipment enables EMCEL to undertake filter performance monitoring supported by independent R&D establishments and leading Universities.

EMCEL Technical Services have been instrumental in developing new carbon grades for special/critical applications and also operate the free carbon life prediction service for users of EMCEL carbon filters.



**Emcel manufacture carbon filters for industries worldwide including:**  
**Airports, Archives, Brewing, Chemical Production, Electronics, Galleries, Hospitals, Hotels, Isotope Production, Laboratories, Libraries, Military Installations, Museums, Nuclear Power Generation, Petrochemical, Pharmaceutical, Research Units, Restaurants, Sewage, Telecommunications, Wastewater**



Other Emcel products include:

- ◆ **Activated Carbon Units**
- ◆ **Odour Control Filters**
- ◆ **Particle Filters**
- ◆ **HEPA Filters**
- ◆ **Washable/Cleanable Panels**
- ◆ **Special Filters**



Certificate No. FM 24138

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