

## Preferred applications for the use of MesoFix

**Purification of contaminated water by hydrocarbons in dissolved or solid form (PAK, LHKW, BTX Group, oils and derivatives, PCBs)**

Landfill seepage water,  
Deposits of water (mining),  
Oil disasters, oil shipping, bilge waters,  
Industrial waste water,  
Process water

**Significant reduction of COD values in polluted waters, including multi-stage use**

Landfill leachate  
Waste water slaughtering  
Treatment plants  
Wastewater Waste management  
Industrial wastewater

**Possible applications for the use of MesoFix.**

Exposed drinking water fountains  
Closed garbage dumps  
PCB-contaminated mines  
Fire brigades, car accidents  
Small sewage works  
Ports, oil terminals  
Tank shipping oil spill kits

# IMPRESSUM



MesoFix is a product of  
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**PolycarbonPlus** GmbH



**Water is our passion!**

**Environmental**

**Solutions**

# MesoFix

Innovation in water treatment

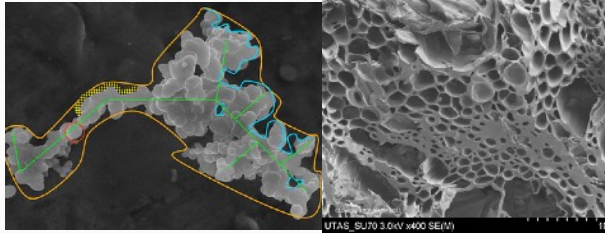


## This is the sad reality!

The amount of usable fresh  
water on the planet is very  
limited!

MesoFix makes a positive  
contribution to make  
contaminated fresh water  
again usable as a resource.

# MesoFix Innovation in Water Treatment



## MesoFix vs. Activated Carbon

MesoFix differs due to the pore structure and its distribution from the often used activated carbon. The active carbon is dominated by micropores, which are optimized for small molecule processes. For long-chain and ring molecules, e.g. Activated carbon is often blocked by its molecular structure and thus loses its operability through the associated pore blockade. MesoFix, on the other hand, is dominated by the mesopores, which take up such molecules in an optimized manner and which result in a much higher absorption capacity due to the multi-stage recording process. The application areas of MesoFix are almost unlimited and therefore it is both an alternative, as well as an extension and addition to the active carbon.

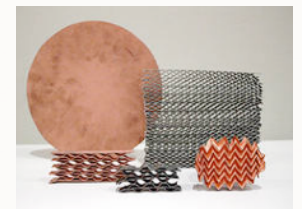
MesoFix is working in multi-levels! It adsorbs the entire group of undesirable hydrocarbons, including crude oil and all its derivatives. The multistage is the absorption of the adsorbed pollutants. That is, the pollutants accumulated during adsorption are completely absorbed and enclosed by the material. By this effect the pollutants are bound in the MesoFix and cannot be released again. The absorption of pollutants by this reaction of the system components can be a multiple of the dead weight of MesoFix.

### Conditionability of MesoFix

MesoFix can be conditioned for special applications. Depending on the requirements, additional specially adapted materials or metal catalysts can be added to the existing components, which additionally increase the possible applications.



MesoFix with Zeolith



MesoFix is combined with sintered metall

### Supplied by MesoFix

MesoFix is available as powder, pellets or granules. It can be supplied either as bulk material for filter systems or as pads, booms or molded parts. The latter is more likely to be attributed to the field of special application as far as accidents and accidents are concerned.



MesoFix as Pellets



MesoFix as molded parts

### Usability of MesoFix

After the absorption of pollutants from the range of the hydrocarbons, the MesoFix can be thermally utilized, the calorific value is between 20 and 40 Megajoule. Disposal is easy because MesoFix does not release the contaminants.



problem free disposal worldwide



Heat value up to 40 Megajoule