



**Activated Carbon**

## THE BEST Activated Carbon FOR THE REFINERY AND PETROCHEMICAL INDUSTRY

### FOR ALL YOUR ACTIVATED CARBON NEEDS: ONE-STOP

Activated carbon is used in many different processes in petrochemical industries and with technical support always close at hand, Mazraeh group is able to help you finding the best fit for each of the following activated carbon applications: Gas processing – mercury removal, Mercury is a contaminant that is found in traces in natural gas. It is harmful both to the Environment and process and transport equipment, and has many health implications. When the mercury level exceeds the maximum permissible concentration, the natural gas has to be treated. Mazraeh group has developed the best imaginable solution for the removal of mercury: a sulphur-impregnated carbon with a high loading capacity and high removal efficiency.



#### Gas processing – gas treater liquids

Gas treated liquids (e.g. amine and glycol solutions) are used in gas absorption systems for removing H<sub>2</sub>S and CO<sub>2</sub> from natural gas. The use of several carbon grades that are very suitable for cleaning these solutions results in a longer service life. But also for other gas processing applications in which activated carbon is needed MAZRAEH GROUP can be of help. For example, there are highly effective activated carbon grades available for applications such as hydrogen purification, de-oiling of compressed gas and catalyst protection. Catalyst – MEROX process The MEROX process is a Universal Oil Products (U.O.P) licensed process which involves the catalytic extraction of mercaptans from light refinery products and the mercaptan sweetening of heavier fractions. MAZRAEH GROUP has developed granular activated carbons that provide excellent catalyst support for the MEROX process and are fully U.O.P.-approved. Further more MAZRAEH GROUP can also help finding the best fit when a ready-to-use product is preferred.

#### Process water purification

For economic and energy saving reasons, the condensate return to widely-used steam boilers should be maximized. However, this condensate water is often contaminated with dissolved organic compounds. To remove them we provide a range of granular activated carbon grades that have already been used successfully in many refineries around the world. Pollution prevention – Gas/air purification Most manufacturing plants are required to restrict their airborne emissions of harmful or odorous compounds. Activated carbon is one of the most effective technologies to deal with such problems. MAZRAEH GROUP carries a range of activated carbons that can remove both organic and inorganic impurities from gas/air streams.

## Catalyst – MEROX process

The MEROX process is a Universal Oil Products (U.O.P) licensed process which involves the catalytic extraction of mercaptans from light refinery products and the mercaptan sweetening of heavier fractions. MAZRAEH GROUP has developed granular activated carbons that provide excellent catalyst support for the MEROX process and are fully U.O.P.-approved. Furthermore MAZRAEH GROUP can also help finding the best fit when a ready-to-use product is preferred.

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## Pollution prevention – waste water treatment

Following pretreatment, including biotreatment and solids removal, activated carbon is mainly used in waste water treatment for polishing purposes. Suitable grades are available from MAZRAEH GROUP, whether a granular activated carbon or powdered activated carbon is required.

## Pollution prevention – Hydrocarbon vapour recovery

Hydrocarbon vapour recovery units (VRUs) are used for vapour control at bulk storage and unloading facilities for gasoline. These systems operate with gasoline saturated flows and vacuum regeneration, so special activated carbons are required. This is why MAZRAEH GROUP has developed a chemically-activated pelletized carbon especially for these VRUs.

In short, there is no longer any need to struggle trying to find the best price/performance in Activated carbon solutions. MAZRAEH GROUP has solutions for all problems. Take advantage of the Expertise, experience and technical know-how of our specialists..... We are always close at hand! Just phone your nearest MAZRAEH GROUP Sales Office or contact us through our website <http://WWW.MAZRAEHGROUP.WEBS.COM>

For one-stop-shopping at MAZRAEH GROUP!

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