



# ToxSorb Ltd.

## Line of Business

Water & Wastewater Treatment

## Established

2007

## Leading Executive

Ofer Avidan  
CEO

**T**oxSorb is a water technology company specializing in the design, construction and operation of customized filtration systems using its proprietary Modified Activated Carbon (MAC) media, **engineered to remove specific contaminants from water**. Unlike most water-engineering firms, ToxSorb customizes each solution based on the unique water chemistry and effluent demands of the client.

ToxSorb's MAC technology has been successfully proven to remove the following pollutants: Chromium, Arsenate, Perchlorate, Phosphate, Sulfate, Nitrate, Nickel, Copper, Permanganate, Silver, Zinc, Cyanide, etc.



## What is MAC?

ToxSorb's MAC is a chemical modification of traditional activated carbon, enabling the removal of a wide variety of inorganic pollutants, while maintaining its original adsorption capability for organic pollutants. Each MAC platform is engineered to have both selectivity and affinity towards a specific pollutant, which enables the media to outperform traditional ion exchange systems (i.e. resins) in real-life conditions, where the target pollutant is competing with other ions in the water. ToxSorb's MAC is NSF approved for chromium, arsenic and perchlorate removal in drinking water.

## Advantages of MAC

- **Selectivity:** Captures target pollutants while ignoring non-essential molecules
- **Affinity:** Ensures that captured pollutants are not released back into the water
- **Cost-Effective:** Regeneration of media keeps maintenance costs low
- **Durability:** Regeneration doesn't degrade the effectiveness of the substrate
- **Energy Efficiency:** Low head loss minimizes energy demands



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