



Graver Technologies

Filtration

Separation

Purification

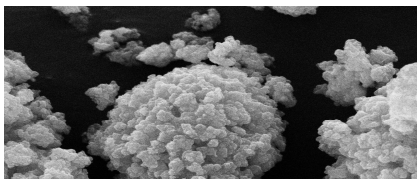
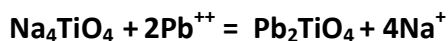
### MetSorb® ST Products

## Effective, High Value Adsorbent for Reduction of Lead and Heavy Metals

Graver's, MetSorb® ST technology is supplied either as a free-flowing powder (STP) or in a physically stable granular form (STG). As a powder it provides cation adsorption functionality when incorporated into pressed or extruded carbon blocks. As a granular media, it can be deployed in standard down-flow vessels for the treatment of heavy metals (cations) in aqueous streams. The exceptional capacity and kinetics of Graver's MetSorb® ST products allow efficient reduction of cationic contaminants with lower media mass requirements. This material is manufactured using a patented process which incorporates high capacity ion exchange properties to effectively remove cationic lead species and other heavy metals, such as Nickel, Lithium, Cobalt, Strontium, Barium, Zinc, Silver, Copper, Cadmium and Mercury.

MetSorb® ST is a crystalline sodium titanate compound with unique physical properties that provide exceptional performance characteristics. MetSorb® ST has been formulated to maximize exchange capacity and selectivity for Lead. The high surface area, nano-crystalline primary particles support an abundance of exchange sites internal to the pore structure, providing the best kinetic properties in the industry.

#### MetSorb® ST Typical Exchange Mechanism for Lead

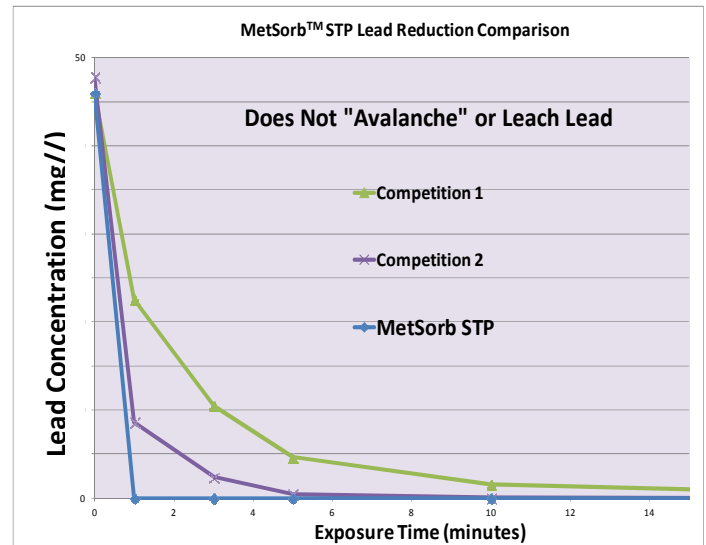


SEM of MetSorb® ST – Abundance of Surface Exchange Sites



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MetSorb® ST: Exceptional Selectivity and Capacity for Cationic Contaminant Removal

MetSorb® ST Specifications	
Appearance	White Powder STP White Granular STG
Moisture Content	< 8%
Average Particle Size	25 micron (d50) STP 16/60 US mesh STG
Bulk Density	40-42 lbs/Ft <sup>3</sup>
STP Packaging	200 lb Fiber Drums 1000 lb Bulk Bags
STG Packaging	1 Ft <sup>3</sup> Boxes 7 Ft <sup>3</sup> Drums

MetSorb® STP is  
Certified to  
NSF/ANSI Standard

