

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® AAFS50 ACTIVATED ALUMINA for Arsenic Removal

Simple Design: Flow-through unit with 5 - 8 minute dwell time.

Low-Cost Media: Economical per-unit cost

Arsenic Removal: Spent material is TCLP approved and disposable in a landfillable.

No Pressure Drop: Granular material will not degrade over time, causing pressure drop.

Commercially Available: Product in large scale North-American production facility, owned by one of the largest aluminum companies in the world.

Certified to ANSI NSF 61.

AAFS50 Activated Alumina is specifically designed to remove arsenic from potable water to achieve less than five ppb of arsenic.

AAFS50 is activated alumina promoted with a proprietary additive. This combination has been engineered for enhanced arsenic removal from water. AAFS50 has shown arsenic capacities of up to five times greater than unpromoted activated alumina.

Arsenic commonly occurs into forms: As(V) (arsenate) and As(III) (arsenite). Maximum arsenic capacity is achieved when dealing with As(V).

AAFS50's capacity for As(III) adsorption is about 60%-70% its capacity for As(V). Oxidation is recommended to assist with As(III) removal, when possible. For example, simple chlorination may achieve 30%-40% higher As(III) capacities than non-oxidized systems.

AAFS50 can be effective at a wide range of pH levels depending on the competing ions present. Where high levels of silica are present, along with a pH level higher than 7.0, an adjustment may be necessary for optimum results. Granular material will not degrade over time, causing pressure drop.

The performance of any adsorbent is dependent on the water being treated. The data provided is for guideline purposes only. Users are advised to check performance prior to their adoption into a system.

Available in granular form in sizes 28 x 48 mesh, with other sizes being supplied on special request.

Packaged in 2,000 lb. SuperSaks™, 350 lb., and 100 lb. kegs. Other forms of packaging can be considered on special request.

CHEMICAL ANALYSIS of AAFS50

Constituents	Weight
Al ₂ O ₃ + proprietary additive	83
Silicon as SiO ₂	0.020
Titanium as TiO ₂	0.002
Loss of Ignition	17

PHYSICAL PROPERTIES of AAFS50

Bulk Density (g/cm ³)	0.91
BET Area (m ² /g)	220
Attrition (%)	0.3

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