

Product Data

Activated Aluminas

AAFS-50 Arsenic Removal Grade

Activated Alumina AAFS-50 is promoted with a proprietary additive engineered to accomplish enhanced arsenic removal. Arsenic commonly occurs in two forms: As(V) (arsenate) and As(III) (arsenite). To achieve maximum performance arsenite must be oxidized to arsenate which is easily accomplished by treatment with an oxidizing agent, such as chlorine. AAFS-50 has shown arsenic capacities up to five times greater than unpromoted activated alumina.

AAFS-50 effectively removes arsenic at a wider range of pH than unpromoted activated alumina, requiring little or no pH adjustment of the raw water. Both the activated alumina and proprietary promoter constituents of AAFS-50 are drinking water grade quality, suitable for potable water treatment. AAFS-50 is post treated for aluminum leachability into treated water.

Chemical Analysis of AAFS-50

Constituents	Weight %
Al ₂ O ₃ + proprietary additive	80-85
Soda Na ₂ O (total)	0.5
Silicon as SiO ₂	0.020
Titanium as TiO ₂	0.002
Loss on Ignition	15-20

Physical Properties of AAFS-50

Bulk Density (g/cm ³)	0.91
BET Area (m ² /g)	200-250
Attrition (%)	0.3

Comparative Adsorption Isotherms for Arsenic

