

Adedge Technologies **AD-74** is a broad-spectrum metal oxide-based granular adsorptive media for reducing contaminants from aqueous streams such as drinking and process waters. This particular product from Adedge is an activated alumina that exhibits performance over a wide range of elements including fluoride, arsenic (V), lead, copper, and other metals. The **AD-74** adsorbent is well suited for use in potable water, industrial process streams, and groundwater remediation projects. It has been employed successfully in household and commercial Point-of-Entry (POE) systems utilizing conventional fiberglass tanks or larger pressure-vessels. Regeneration options are available if desired based on the application. However, for most applications, it is economical to replace the spent media with fresh media. Spent media can typically be discarded as non-hazardous solid waste.

TYPICAL PROPERTIES

Matrix	Modified Alumina Oxide
Physical Form	Granular, flowable, dry
Particle Size Distribution	Several sizes available (application dependent)
Mesh (ASTM)	28x48, 12x32 Tyler Mesh (others sizes available)
Apparent Bulk Density	40 – 43 lbs / ft ³

SUGGESTED OPERATING PARAMETERS

Fluoride Concentration (influent)	< 5 ppm F for best results
Suggested Pretreatment (for best performance)	Fe < 0.3 mg/l; Si < 15 mg/l; Hardness < 15 gpg; Turbidity < 5 NTU; SO ₄ < 100mg/l
Recommended pH Range	5.5 – 7.5; optimal pH = 5.5-6.0
Capacity	Application and water quality profile specific
Bed Depth (Min)	36 Inches
Empty Bed Contact Time	Ranges 3 – 7 minutes typical (application dependent)
Service Flow Rates	1.0 – 2.5 gpm / ft ³
Service Flow Velocity	2 – 8 gpm / ft ²
Regeneration	Contact Adedge for details
Backwash Flow Rate (application dependent)	7-9 gpm / ft ² ; 40-50% expansion
Under bedding / Support	1/16x1/8-inch gravel or garnet typical
Pressure Drop @ 15°C	0.5 – 0.7 psi / ft bed

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