

AdEdge Technologies **AD-140Z** is a unique metal oxide-based adsorption product specifically designed for lead and heavy metals reduction from water and wastewater. The product is a natural zeolite with high affinities for multiple mono-valent and di-valent cations such as lead, copper, nickel, zinc, silver and others. The **AD-140Z** granular product is ideal for standard pressure vessel applications for removing contaminants to low levels. Specific uses include industrial metal finishing, specialty water treatment, and environmental remediation of groundwater, surface water, and stormwater.

TYPICAL PROPERTIES

Matrix	Alumino-silicate Composite
Physical Form	Granular media, dry, flowable
Particle Size Distribution	Application dependent
Mesh (ASTM)	14 x 40 mesh typical, other sizes available
Apparent Bulk Density	Approx. 50 lbs / ft ³
Shipping Container	50 lb bags typical

SUGGESTED OPERATING PARAMETERS

Typical Concentration (influent)	0.01 – 3 mg/l
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 5 – 7 minutes typical (application dependent)
Service Flow Rates	1.0 – 2.0 gpm / ft ³
Service Flow Velocity	2 – 8 gpm / ft ²
Regeneration	Not Applicable
Backwash Flow Rate (application dependent)	7-9 gpm / ft ² ; 40-50% expansion typical
Under bedding / Support	1/16x1/8-inch gravel or garnet typical
Pressure Drop @ 15°C	0.5 – 0.7 psi / ft bed
Startup Parameters	See AdEdge Technologies Recommended Startup Procedures

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