



AMBERLITE™ 62i Inert Resin

Polyethylene, Inert Resin for Industrial Demineralization Applications

Description

AMBERLITE™ 62i Inert Resin is a floating, non-functionalized, transparent, amorphous-shaped resin with properties specifically designed for use as an upper layer in up-flow regenerated ion exchange systems, such as UPCORE™ Packed Bed Systems. This inert resin has a specific gravity lower than water, which ensures it will stay above the ion exchange resin bed. Its self-distributing properties allow it to evenly cover the available cross-sectional area, forming a protective layer that allows dirt and resin fragments to pass through while retaining the resin bed during the compaction/bed-lift step prior to regeneration.

Applications

- Demineralization
- Industrial softening
- Condensate polishing

System Designs

- Packed beds
 - for UPCORE™ Systems or other up-flow regenerated packed beds
 - configured as a layered bed
- Counter-current / Air hold-down

Historical Reference

AMBERLITE™ 62i Inert Resin has previously been sold as DOWEX™ UPCORE™ IF-62 Inert Resin.

Typical Physical and Chemical Properties**

Physical Properties	
Polymer	Polyethylene
Type	Inert
Functional Group	None
Physical Form	White pellets
Particle Size	
Particle Diameter	2.5 – 4.0 mm
Density	
Particle Density	0.95 g/mL
Shipping Weight	620 g/L

Suggested Operating Conditions**

Temperature Range	5 – 110°C (41 – 230°F)
pH Range	0 – 14

For additional information regarding recommended minimum bed depth, operating conditions, and regeneration conditions for [separate beds](#) (Form No. 177-03729) in water treatment, please refer to our Tech Fact.

Hydraulic Characteristics

Estimated pressure drop for AMBERLITE™ 62i Inert Resin as a function of service flowrate and temperature is shown in Figure 1a and a magnified scale of the same is shown in Figure 1b. These estimated pressure drop expectations are valid at the start of the service run with clean water and a well-classified bed.

Figure 1a: Pressure Drop

Temperature = 10 – 60°C (50 – 140°F)

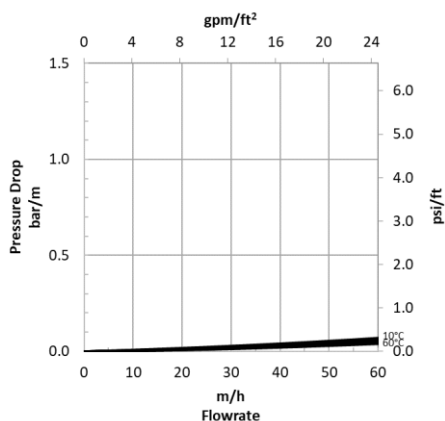
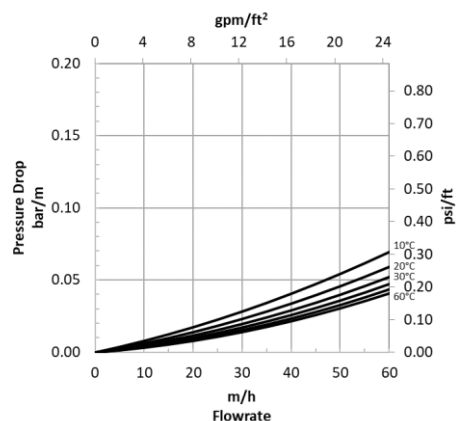


Figure 1b: Pressure Drop

Temperature = 10 – 60°C (50 – 140°F)



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WARNING: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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