

**DOWEX IF-59**

A Floating Inert Resin Specially Designed for use in Upflow Service Ion Exchange Packed Bed Counter-Current Regeneration Systems

Product	Type	Matrix	Functional group
DOWEX™ IF-59	Inert resin	Polypropylene	None

Typical Physical and Chemical Properties

Bead size distribution†		
Range 1,000 - 1,700 µm (18 mesh - 12 mesh)	%	95
< 1,000 µm, max. (18 mesh)	%	1
Particle density	g/mL	0.97
Shipping weight	g/L	560
	lbs/ft³	35

Recommended Operating Conditions

- Maximum operating temperature 100°C (212°F)
- pH range 0 - 14
- Bed depth, min. 150 mm (0.5 ft)
- Flow rates:
Service 5 - 60 m/h (2 - 24 gpm/ft²)

Typical Properties and Applications

DOWEX IF-59 resin has a density less than water which insures it stays above the ion exchange resin bed. It protects the collector system against blockage and prevents resin fragments from being flushed from the bed during the service cycle.

Packaging

25 liter bags

† For additional particle size information, please refer to Particle Size Distribution Cross Reference Chart (Form No. 177-01775)

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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