



**IP4**

**Inert Polymer**  
(FOR USE IN COUNTER-CURRENT SYSTEMS)

Technical Data

**PRODUCT DESCRIPTION**

**PuroLite IP-4** is an inert polymer in the form of cylinders. It has been especially designed for use in the Fluidlite process (packed or partially packed and fluidised beds operated in the up-flow counter-flow mode). The polymer has optimum specific gravity, which together with its resistance to attrition and its ability to withstand mechanical stress ensures both excellent stability of the ion exchange bed and free flow through the strainers of the collector system during service, by eliminating the possibility of blockage of strainers with traces of resin fines.

Another feature of **PuroLite IP-4** is its ability to improve the distribution of regenerants during the downflow regeneration stage.

**PuroLite IP-4** can also be used in down flow processes with upflow regeneration, where it protects the strainers during the regeneration and improves the flow distribution during service.

**Recommended Quantity**

Depth of IP-4 layer depends upon the vessel diameter.

- Diameter up to 1 m -> 100mm PuroLite IP-4
- Diameter up to 2 m -> 150mm PuroLite IP-4
- Diameter up to 4 m -> 200mm PuroLite IP-4

**Typical Characteristics**

Polvmer Structure .....	Polvpropvlene
Appearance .....	Translucent Cvllnders
Particle Size [Dimensions] :.....	Lenath (average)
	0.8-1.5 mm
	Diameter (average) .....
	1.2-1.5 mm
Specific Gravitv .....	0.85 (+/- 0.05)
Shippina Weiaht (approx) .....	500-600 ka/m <sup>3</sup> (31.5-37.5 lb/ft <sup>3</sup> )
Temperature Limit (in water) .....	100°C (210°F)
pH Limits .....	None