

#### Macroporous Strong Acid Cation Exchange Resin

**Purolite PFC150S** is a macroporous poly(styrene sulphonate) cation-exchange resin with excellent resistance to both osmotic and thermal shock. **Purolite PFC150S** is a specially produced, premium grade, narrow particle size distribution, strong acid cation exchange resin. It has a specially tailored size grading which provides for economical regeneration and low pressure drop. Its sponge-like structure permits higher rates of diffusion of the often complex nitrogenous impurities taken up by strong acid cation resins during demineralization of aqueous solutions containing organics and facilitates their removal upon regeneration.

**Purolite PFC150S** is highly suited for demineralization of sugar solutions. It is also recommended for the removal of amines from sugar or alcohol solutions.

#### Basic Features:

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Application           | Sugar Grade Resin - Uniformly Sized                     |
| Polymer Structure     | Macroporous polystyrene crosslinked with divinylbenzene |
| Appearance            | Spherical Beads                                         |
| Functional Group      | Sulphonic acid                                          |
| Ionic form as shipped | Na <sup>+</sup>                                         |

#### Typical Physical and Chemical Characteristics:

|                               |                                  |                               |
|-------------------------------|----------------------------------|-------------------------------|
| Total Capacity (min.)         | Na <sup>+</sup>                  | 1.80 eq/l                     |
| Total Capacity (min.)         | Na <sup>+</sup>                  | 39.30 kGr/ft <sup>3</sup>     |
| Moisture Retention            | Na <sup>+</sup>                  | 48 - 53 %                     |
| Mean Size Typical             |                                  | 0.52 - 0.62 mm                |
| Uniformity Coefficient (max.) |                                  | 1.20                          |
| Reversible Swelling (max.)    | Na <sup>+</sup> → H <sup>+</sup> | 4 %                           |
| Specific Gravity              |                                  | 1.25 g/ml                     |
| Shipping Weight (approx.)     |                                  | 775 - 800 g/l                 |
| Shipping Weight (approx.)     |                                  | 48.4 - 50 lbs/ft <sup>3</sup> |
| Temp Limit                    | H <sup>+</sup>                   | 120 °C                        |
| Temp Limit                    | H <sup>+</sup>                   | 250 °F                        |
| Temp Limit                    | Na <sup>+</sup>                  | 140 °C                        |
| Temp Limit                    | Na <sup>+</sup>                  | 285 °F                        |

pH Limits

0 - 14

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