

Macroporous Weak Base Anion Exchange Resin

Purolite A103 is a macroporous polystyrenic weak base anion resin having tertiary amine functionality. Purolite A103 is designed to exhibit high operating capacity in removing strong acids formed after decationizing water through a strong acid cation resin like Purolite C100H. Because of its special porosity characteristics Purolite A103 shows excellent properties for removal of naturally occurring organic species from waters along with superior elution efficiency of the organics during regeneration. Purolite A103 also shows excellent resistance to osmotic shock as well as being physically resistant to mechanical breakage. Regeneration with caustic soda requires only 125% of the stoichiometric equivalent when related to the ionic loading on the resin at the exhaustion point. The rinse characteristics are good and minimum volumes of decationized water are required to rinse down to a conductivity of 50 μ S/cm.

Basic Features:

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|-----------------------|---|
| Application | Demineralization |
| Polymer Structure | Macroporous polystyrene crosslinked with divinylbenzene |
| Appearance | Spherical beads |
| Functional Group | Tertiary Amine |
| Ionic form as shipped | Free Base |

Typical Physical and Chemical Characteristics:

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|-------------------------------|----------------------|-------------------------------|
| Total Capacity (min.) | Free Base | 1.60 eq/l |
| Total Capacity (min.) | Free Base | 34.93 kGr/ft ³ |
| Moisture Retention | Cl ⁻ | 48-55 % |
| SBC | | 12-20 % |
| Mean Size Typical | | 0.60-0.85 mm |
| Uniformity Coefficient (max.) | | 1.70 |
| Reversible Swelling (max.) | FB → Cl ⁻ | 25 % |
| Specific Gravity | | 1.04 g/ml |
| Shipping Weight (approx.) | | 645-675 g/l |
| Shipping Weight (approx.) | | 40.3-42.2 lbs/ft ³ |
| Temp Limit | OH ⁻ | 60 °C |
| Temp Limit | OH ⁻ | 140 °F |
| Temp Limit | Cl ⁻ | 100 °C |
| Temp Limit | Cl ⁻ | 212 °F |

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| pH Limits | | 0-14 (Stability) |
| pH Limits | H ⁺ | 0-9 (Operating) |

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