

IONLITE C-259, IG

STRONG ACID, CATION EXCHANGE RESIN

Na⁺ FORM

IONLITE C-259, IG is a strong acid, gel type, standard crosslinked polystyrene, sodium form, which has high operating capacity, excellent chemical and mechanical stability.

IONLITE C-259, IG is especially utilized in water softening process for industrial water treatment.

PYHSICAL PROPERTIES

| | | |
|------------------------------------|--------|----------------------------------|
| Polymer Structure | | crosslinked polystyrene |
| Functional Group | | sulphonic Acid |
| Ionic form as shipped | | Na ⁺ |
| Structure | | gel type |
| Apperance | | brownish yellow to brown |
| Total Exchange Capacity | meq/g | 4.5 min |
| Volume Exchange Capacity | meq/ml | 2.0 min |
| Water Retention | % | 45 - 50 |
| Solubility | | Insoluble in all common solvents |
| Bulk Density | g/ml | 0.77 - 0.87 |
| Specific Density | g/ml | 1.25 - 1.29 |
| Bead Size (≥95%) | mm | 0.315 - 1.25mm |
| Effective Size | mm | 0.4 - 0.6 |
| Uniformity Coefficient | ≤ | 1.6 max |
| Roundness After Wearing | % | 95 min |
| Total Reversible Swelling (Na - H) | % | 8 - 10 |
| Standard Packing | | In 25 liter per bag |

SUGGESTED OPERATING CONDITIONS

| | | |
|------------------------------|------------------------------|------------------------------------|
| Minimum Bed Depth | mm | 800 |
| Operating pH Range | | 1 - 14 |
| Max. Operating Temperature | °C | 120 |
| Standard Operating Flow Rate | m/hr | 10 - 45 |
| Regenerant | | HCL NaCl |
| Concentration | % | 4 - 5 8 - 10 |
| Consumption | regenerant vol. : resin vol. | 2 - 3 : 1 1.5 - 2 : 1 |
| Flow Rate | m3/hr | 4 - 6 |
| Contact Time | minute | approx. 30 - 60 |
| Slow Rinse | | |
| Flow Rate | | @ Regen Flow Rate |
| Volume | BV | 1 - 2 |
| Fast Rinse | | |
| Flow Rate | | @ Service Flow Rate |
| Volume | BV | 3 - 5 |
| Max Turbidity | NTU | 5.0 |
| Max Free Chlorine | ppm | 0.1 |

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FIGURE 1 : Backwash Data

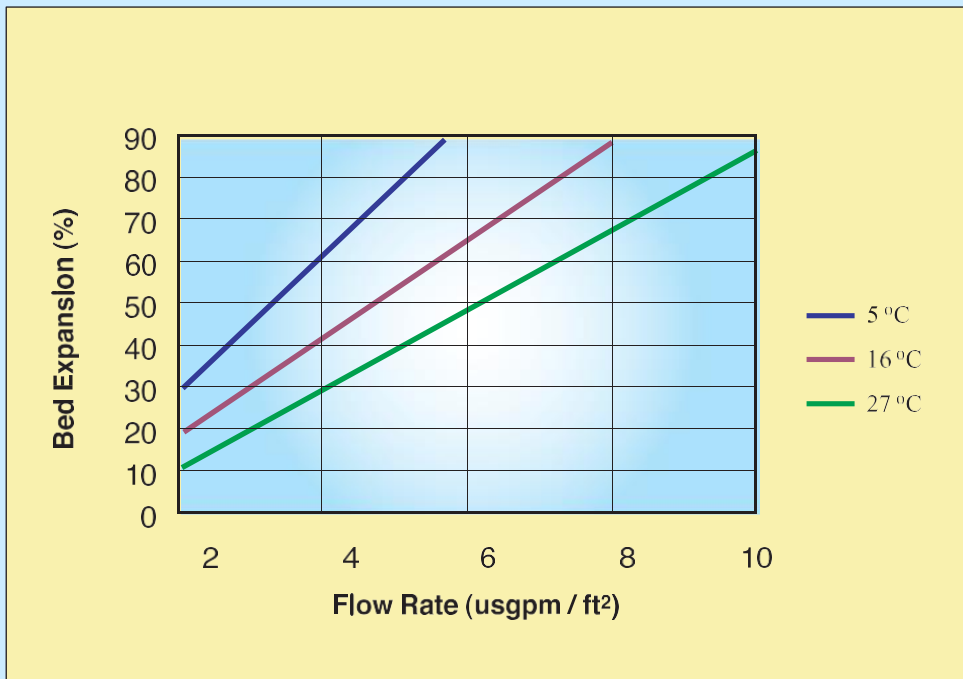


FIGURE 2 : Pressure Drop Data

