### DESCRIPTION

**DUOLITE A 161 PLUS**, is macroporous type 1 strong base Anion Exchange Resin. Its polystyrene matrix is prepared according to a patented special process which gives a homogeneous structure with flexible bridging obtained through careful crosslinking. The porosity of Duolite A 161 PLUS has been optimised to make it particularly resistant to osmotic shocks and attrition. Performance and stability of Dulite A 161 PLUS can be used in continuous ion exchange process and high speed condensate treatment. The physical & chemical properties are tested by the method specified in IS : 7330-1988.

### PROPERTIES

- **Matrix**: Strene DVB copolymer
- **Functional groups**: - N⁺ (CH₃)₃, Min.95% of TEC
- **Physical form**: Opaque Beads.
- **Ionic form as supplied**: In chloride form
- **Total exchange capacity**: Min. 1.3 eq / L (Cl⁻ form)
- **Moisture holding capacity**: 50 - 56% (Cl⁻ form)
- **Specific gravity**: About 1.1 (Cl⁻ form)
- **Shipping weight**: About 640 to 700 g / L (Cl⁻ form)
- **Particle size**: 0.3 - 1.2
- **Maximum reversible swelling**: Cl⁻ • OH⁺ : About 10 to 15 %
- **Operating pH range**: 0 - 14
- **Average pore diameter**: Minimum 250 Å
- **Chemical stability**: Insoluble in dilute acids or bases and common solvents.

Please refer our Technical Data Sheet on Duolite storage and handling instructions for storage of resin.

### SUGGESTED OPERATING CONDITIONS

- **Maximum operating temperature**: 60°C (OH⁻), 100°C (Cl⁻)
- **Minimum bed depth**: 700 mm
- **Service flow rate**: 5 to 40 BV / hr
- **Maximum linear velocity**: 50 m / hr
- **Regenerant**: NaOH
- **Level**: 30 to 150 g / L
- **Flow rate**: 2 to 8 BV / hr (minimum contact time 30 minutes)
- **Concentration**: 3% to 5%
- **Slow rinse**: Min. 2 BV at regeneration flow rate
- **Fast rinse**: Same as service flow rate.

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

Please refer the check list provided for safe operation and longer durability of resin.

AVOID EXCESSIVE ORGANICS ENTERING DUOLITE IER FOR LONG & HEALTHY LIFE
DUOLITE A 161 PLUS

PRODUCT DATA SHEET

For further information please contact your nearest Auchtel representative.

SAFE HANDLING INFORMATION

A Material Safety Data Sheet is available for each product. To obtain a copy contact your Auchtel representative.

CAUTION

Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidizing agents can cause explosive type reactions when mixed with Ion Exchange Resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidizing agent such as nitric acid is contemplated. Before using strong oxidizing agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.