

## **MOLECULAR SIEVES TYPE 5A**

### **Description**

Molecular Sieves Type 5A are crystalline metal aluminosilicates having an effective pore opening of 5 angstroms. Type 5A are the calcium form of the Type A crystal structure.

### **Application**

- Drying, Desulphuration and CO<sub>2</sub> Removal of Natural Gas.
- Drying and CO<sub>2</sub> Removal of Air.
- Nitrogen Production Plant
- Separation of ISO and N Paraffins.
- Pressure Swing Adsorption System. Enriched Air, Purification of Hydrogen etc.

### **General Properties**

Form in which supplied: Beads

|  |                               |
|--|-------------------------------|
| Mean particle diameters .....                            | 4 X 8 (4 mm)                  |
|  | 8 X 12 (2 mm)                 |
| Nominal pore size .....                                  | 5 Angstroms                   |
| Bulk Density .....                                       | 41 - 42 Lbs/ft <sup>3</sup>   |
| Average crushing strength under increasing pressure (Lb) |                               |
| 4 X 8 mesh .....   | 15                            |
| 8 X 12 mesh .....  | 7                             |
| Equilibrium water capacity (theoretical) .....           | 21.7% wt.                     |
| Water Content (as shipped).....                          | 1.5% wt. (max.)               |
| Heat of adsorption (max).....                            | 1,800 Btu/lb H <sub>2</sub> O |
| Specific heat (approx) .....                             | 0.23 Btu/lb/°F                |
| Recommended temperature of regeneration (°F) .....       | 250 - 600                     |

### **Packaging**

Type 5A Molecular Sieves are delivered in drums containing 150 lbs and 300 lbs net of product.