

## TYPE 3A-IG MOLECULAR SIEVE Insulating Glass Desiccant for Solvent-free Systems

### **Product Information**

CHEM SOURCE Type 3A-IG Molecular Sieve Beads were specifically developed to give maximum performance performance in Insulating Glass Units. Their unique combination of high water adsorption and low Nitrogen and Argon adsorption makes CHEM SOURCE's 3A-IG Molecular Sieve the preferred desiccant for maximizing your Insulating Glass Unit's life, appearance and performance.

CHEM SOURCE Type 3A Molecular Sieves for Insulating Glass applications are true " Low Deflection" desiccants. This "Low Deflection" characteristic means your windows have better appearance, less distortion in reflected images and lower glass and sealant stress. This dramatically lowers the potential for sealant failure or glass breakage at low temperatures and low barometric pressure.

# CHEM SOURCE 3A-IG Molecular Sieve Beads for Insulating Glass Fabrication provide the optimum properties for all Dual Seal and Hot Melt Butyl Sealed units.

High Water Adsorption	Low Glass Deflection	Low Seal Stress	Low Argon Adsorption
Longer Unit Life	Less Glass Breakage	Low Unit Failures	High Insulating Value





CHEM SOURCE 3A-IG Molecular Sieve Beads for Insulating Glass applications are processed to have low desiccant dusting characteristics. This avoids unsightly dust formation on the bottom spacer bar between the panes of glass.



Type 3A Molecular Sieve Beads for Insulating Glass Applications are available in two standard particle size distributions

Type 3A-IG, 1.0 to 2.0 mm Beads: Type 3A-IG, 0.5 to 1.0 mm Beads: Recommended for all IG Unit configurations with spacer sizes greater than 1/4 inch. Recommended for automated Desiccant filling systems, such as Lisec Machines and narrow profile spacers (1/4 inch and smaller)

Test	1.0 to 2.0 mm Beads		0.5 to 1.0 mm Beads	
	Spec.	Typical Values	Spec.	Typical Values
Moisture Content(3 hrs @ 575 °C)	1.5 % max.	0.8%	1.5 % max.	0.8%
Water Adsorption @ 50%RH and 25 °C	20.5% min.	20.8%	20.5% min.	21.0%
Density (Kgs./liter)	0.69 - 0.75	0.73	0.69 - 0.75	0.73
Abrasion Resistance ( wt. %)	0.2 % max.	0.07%	0.2 % max.	0.08%
Dust Test (ppm)	40 max	31	40 max	29
Gas Desorption (ml)	40	29	40	28
Temperature Rise (°C) (50/50 mix by wt.)	54 °F min	73 <sup>0</sup> F	54 °E min	74 <sup>0</sup> F

#### Product Packaging

CHEM SOURCE Type 3A - IG Molecular Sieve Beads are available in the following standard Packages:

25 Kg moisture proof bag. Each bag packed in a cardboard box, 40 bags/boxes per pallet = 1,000 Kgs 80 Kgs per fiber drum, 6 drums per pallet

140 Kgs per fiber drum, 4 drums per pallet

500 Kgs per Super Sack, 2 sacks per pallet

#### Shelf Life

The shelf life of Chem Source Molecular Sieve Powder packaged in an undamaged, factory sealed container is at least 2 years.

#### **Product Safety**

Molecular Sieve Beads are crystalline alumino silicate powder formed into beads with Clay binders. Since Clay binders are naturally occurring materials, they may contain low quantities of crystalline silica. Care should be taken to avoid direct inhalation of dust particles from Molecular Sieve Beads and proper safety equipment should be used at all times.

Please consult the Material Safety Data Sheet for all Health and Safety Information.