



## HM 2000 MOLSIV™ ADSORBENT

**DESCRIPTION**

HM 2000 Molsiv Adsorbent is a homogeneous product composed of two types of molecular sieve. When used to manufacture insulated glass windows, this high-capacity adsorbent can achieve and maintain water dew points as low as  $-75^{\circ}\text{C}$ . HM 2000 Molsiv Adsorbent is the preferred desiccant for hot melt sealed units due to its optimised combination of low air adsorption and tailored solvent capacity. This product also has low air and inert gas (argon) capacity to minimise deflection and seal stress.

**SPECIAL FEATURES**

**Solvent capacity:** Prevents solvent fogging by adsorbing volatile organic hydrocarbons associated with hot melt sealed units. Other airborne hydrocarbons, such as cleaning solvents and touch-up paint, will also be readily adsorbed.

**Low air and inert gas capacity:** Adsorbent-related unit deflection and seal stresses are reduced. The high insulating values expected from inert gas filling are achieved by keeping the gas between the glass and minimising the amount adsorbed on the adsorbent.

**Superior bead strength:** Minimised dusting and chipping occurs during handling and spacer filling.

**Non-separating:** Every insulated glass unit has consistently high water and solvent capacity.

**TYPICAL PHYSICAL PROPERTIES**

<b>HM 2000 Molsiv Adsorbent</b>	<b>1.3mm Beads</b>
Bead size range (mm)	1.0-1.68
Bulk density ( $\text{kg}/\text{m}^3$ )	730
Moisture content, as packaged (wt-%) max	1.0
Equilibrium $\text{H}_2\text{O}$ capacity <sup>1</sup> (wt-%)	22
$\text{H}_2\text{O}$ Adsorption capacity <sup>2</sup> (wt-%)	21
Attainable moisture dew point ( $^{\circ}\text{C}$ )	-75
Solvent Capacity (wt-%)	4
Opacity (Dust)	22

<sup>1</sup> Measured at 17.5mm Hg  $\text{H}_2\text{O}$ ,  $25^{\circ}\text{C}$

<sup>2</sup> 32% r.h.,  $23^{\circ}\text{C}$  [according to prEN 1279.2 (wt%)]

**SAFETY AND HANDLING**

See the UOP brochure entitled 'Molecular Sieve Safety Bulletin for Manufacturers' or contact your local UOP representative. HM 2000 Molsiv Adsorbent test kits are available for quick, in-plant monitoring of residual moisture and adsorbent activity.

**SHIPPING INFORMATION**

Molsiv HM 2000 adsorbent is available in moisture-resistant bags-in-boxes or single component PE-bags.

**FOR MORE INFORMATION**

For more information, contact your UOP representative or UOP's Adsorbents business at:

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