UOP MOLSIV™ 3A-U Adsorbent

Adsorbents

Description
UOP MOLSIV 3A-U activated powder adsorbent is a surface modified sodium potassium form of the Type A crystal structure. An alkali metal aluminosilicate, 3A-U molecular sieve adsorbs molecules with critical diameters up to 3 angstroms.

Applications
3A-U adsorbent can be used in a multitude of applications to meet your desiccant needs. It is effective in water scavenging moisture-sensitive urethane formulations, such as cell foams, coatings, adhesives, sealants, and elastomers as well as in insulated glass matrix formulations, in which high concentrations of 3A-U adsorbent (greater than 40 wt-%) can be used for end-use desiccating.

UOP’s 3A activated powders have the lowest air and solvent capacity of all the UOP activated powders, making it ideal for selective removal of water, in a variety of applications.

Typical physical properties
- Nominal pore diameter (Å) 3
- Nominal particle size (microns) <10
- Bulk Density (lb/ft³) 35 (kg/m³) 560
- Equilibrium H₂O capacity* (wt-%) 25.5
- Moisture content (wt-%) <2.0

*Measured at 17.5 mm Hg H₂O and 25°C for 90 mn

Chemical formula
$$M_x[(AlO_2)_x(SiO_2)_y] \cdot H_2O \quad [M=Na, K]$$

Safety and handling
See the UOP brochure entitled “Molecular Sieve Safety Bulletin for Manufacturers”, or contact your local UOP representative.

Shipping information
3A-U activated powder is shipped in 55-gallon drums or quick load bags.

For more information
For more information, contact your local UOP representative or our Des Plaines sales office:

- e-mail: info@uop.com
- fax: +1-847-391-2253