

PSA O2 HP MOLSIV™ ADSORBENT

DESCRIPTION

PSA O2 HP adsorbent is a high-performance sodium form of the Type X molecular sieve.

APPLICATIONS

PSA O2 HP adsorbent was specifically developed for on-site generation of oxygen in super-atmospheric pressure swing cycles. The nitrogen selectivity of the product makes it particularly applicable for this function.

PSA O2 HP molecular sieve can also be used to retrofit PSA O2 units containing older generation adsorbents to increase productivity or to reduce power consumption.

TYPICAL PHYSICAL PROPERTIES

	10x20 Beads	8x12 Beads
Nominal pore size (Å)	10	10
Particle size (in)	0.057	0.080
Density (lbs/ft ³)	40	40
Water content, as shipped (wt-%)	<1.0	<1.0
Equilibrium water capacity(1) (wt-%)	28.5	28.5
Equilibrium CO ₂ capacity(2) (wt-%)	20	20

CHEMICAL FORMULA

$M_x [(AlO_2)_x (SiO_2)_y] \cdot z H_2O [M=Na]$

SAFETY AND HANDLING

See UOP brochure entitled "Precautions and Safe Practices for Handling Molecular Sieves in Process Units" or contact your UOP representative.

SHIPPING INFORMATION

PSA O2 HP MOLSIV adsorbent is shipped in 55-gallon steel drums and quick load bags.

ECP Ltd. www.ecpltd.co.nz