



UOP OXYSIV™ 5XP Adsorbent

Adsorbents

Description

UOP OXYSIV 5XP adsorbent is specifically designed for use in medical oxygen concentrators that employ a pressure swing cycle for generation of high purity (90-95%) oxygen. UOP's proprietary manufacturing process yields strong, uniform beads for minimal dusting and consistent operating performance and pressure drop.

Performance

As a drop-in substitution for previous adsorbents in pressure swing cycle concentrators, OXYSIV 5XP adsorbent can increase oxygen purity or increase oxygen output up to 20%. This results in improved production yields and concentrator life.

Optimized use of OXYSIV 5XP adsorbent can result in a bed size reduction up to 20% and a proportional reduction in compressor feed and power.

Typical physical properties

Particle form	Beads
Particle size (mm)	0.55
Density (lb/ft ³)	43.5
(kg/m ³)	700
Water content, as shipped (wt-%)	0.5

Safety and handling

OXYSIV 5XP adsorbent will preferentially adsorb water over all other airborne molecules. To ensure maximum nitrogen capacity, moisture pick-up from air exposure should be minimized. Adsorbed water cannot be readily removed via pressure swing purging.

For more information, see the UOP brochure "Molecular Sieves Safety Bulletin for Manufacturers" or contact your local UOP representative.

Shipping information

UOP OXYSIV 5XP adsorbent is shipped in 55-gallon steel drums.

For more information

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

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