

HYGB100D

FOR OXYGEN GENERATION

DESCRIPTION

HYGB100D is specially manufactured for oxygen generation and selectively removes nitrogen and other contaminants from oxygen streams. This purification process creates ultra-high purity oxygen that can be used in as an input gas or for breathing oxygen. This molecular sieve offers a high capacity and its small bead size offers rapid adsorption/desorption rates with quick mass transfer properties.

- used to remove nitrogen from oxygen streams
- capable of generating ultra-high purity streams of oxygen
- allows oxygen to be used as breathing air
- small beads offer rapid adsorption/desorption rates

CHEMICAL FORMULA



SPECIFICATIONS

Molecular Sieve			
HYGB100D		Beads	
Property	Unit	20x35 Mesh	
Diameter	mm	0.5 - 0.8	
Bulk Density	g/mL (lb/ft ³)	0.61-0.65 (38.0-40.6)	
Static Nitrogen Adsorption	cc/g	≥24.0	
N ₂ /O ₂ Separation	-	≥6.3	
Attrition	wt%	≤1.0	
Moisture Content	wt%	≤0.5	
Packaging Options	140kg (308.6lb) / Drum; 25kg (55.1lb) / Drum		

INDUSTRIES USED

oxygen generation

oxygen concentrators

STORAGE

As an adsorbent, molecular sieve should not be left exposed to open air and should be stored in dry conditions with air-proof packaging.

CONNECT WITH US...

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ISO 9001:2008



ISO 14001:2004

HYGB100D

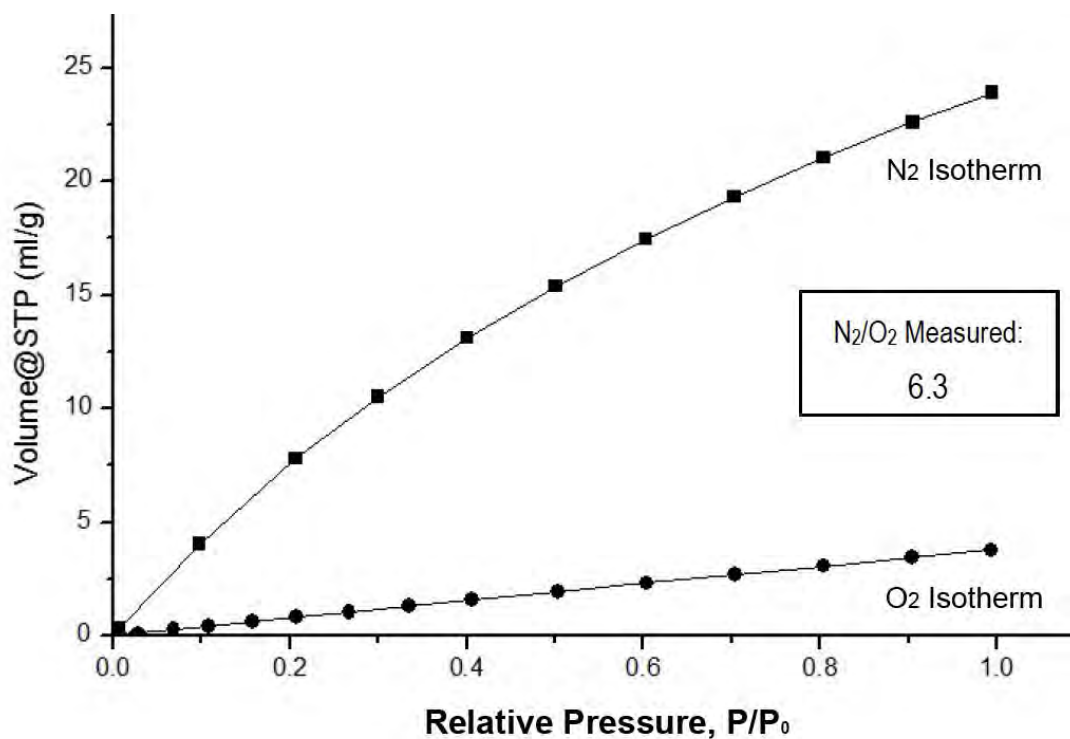
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CHARACTERISTICS

This product is a specialized molecular sieve for oxygen generation and offers a high adsorption capacity, a fast dynamic adsorption/desorption rate for nitrogen, and shows a strong adsorption selectivity for nitrogen over oxygen.

ISOTHERM

The chart below is the nitrogen and oxygen adsorption isotherm (25°C) for HYGB100D:



PERFORMANCE

This chart indicates that HYGB100D shows high N₂/O₂ separation under a very low pressure, which lowers the consumption of oxygen generation and improves its economic performance. Due to the advantage of high adsorption capacity, this product has extensive application in small oxygen generation devices.

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