

Product Information

SEPURAN® N₂ Module 2" Long PVC



SEPURAN® N₂ 50x610 P0.5N P 10

HIGH CAPACITY WITH LOW AIR CONSUMPTION

SEPURAN® N₂ is a hollow fiber membrane gas separator that is used to remove oxygen from compressed air, resulting in N₂ purities between 95–99.5%. The polymer is specially tailored for nitrogen generation. Unlike other gas separation membranes, SEPURAN® N₂ membranes are characterized by a very high flow capacity with a very good air factor, resulting in the optimization of compression and operating cost.

If you need more information, please call or email your local contact or visit www.sepuran.com

IN NM³/H AT 7 BARG; 25°C (NORM = 0°C; 1 ATM)

	N ₂ produced	Air / N ₂ ratio
99%	0.47	3.8
98%	0.68	3.0
97%	0.87	2.6
96%	1.07	2.3
95%	1.27	2.1

IN SCFH AT 102 PSIG; 77°F (STANDARD = 60°F; 1 ATM)

	N ₂ produced	Air / N ₂ ratio
99%	17.5	3.8
98%	25.4	3.0
97%	32.5	2.6
96%	39.9	2.3
95%	47.4	2.1

The composition of the product was determined by measurement of the residual oxygen content. The “N₂ produced” value is the inert gas content. The pressure is the retentate pressure, namely N₂ produced stream discharge pressure. The inlet air divided by “N₂ produced” gives the air factor or air/N₂ ratio. The lower the air factor, the lower the investment and operating costs.

DIMENSIONS

Total length	610 mm / 24 inch
Min. outer diameter	50 mm / 2.0 inch
Max. outer diameter	80 mm / 3.1 inch
Weight	1.9 kg / 4.2 lbs

CONNECTIONS:

Air and N₂ connections	NPT 0.5"
O₂ off-gas connection	NPT 0.5"

SPECIFICATIONS:

External material	PVC/SS304
Operating pressure Feed- / Retentate side	≤ 10.0 barg / 145 psig
Operating pressure permeate side	Atmospheric
To be used with	Pretreated pressurized air
Other Gases	Contact the supplier
Min. operating temperature	1 °C / 34 °F
Max. operating temperature	40 °C / 104 °F
Inlet air requirements	Particles, aerosols: ISO 8573-1:2010 class 1
	Condensation of water must be avoided

CAUTION

Nitrogen enhanced gas can cause suffocation, oxygen enhanced gas can increase the risk of fire or explosion. Please consult associated documents for proper and safe use

PRODUCT CODE	PRODUCT NAME
99139665	SEPURAN® N ₂ 50x610 P0.5N P 10

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice.

EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND.

It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

® = registered trademark

Evonik (China) Co., Ltd.

Unit D1-0-1005A, No. 5 Building, 19 Dongfang East Road, Chaoyang District, 100600 Beijing, P.R.China

sepuran@evonik.com
www.evonik.com/sepuran
www.membrane-separation.com