ADSORBENT SORBEO CMS

(Carbon Molecular Sieve)

DESCRIPTION

Sorbeo CMS is pelletised form carbon molecular sieve
CMS is mainly used to separate N2 from air but is can also be used in many other applications (separating methane from methane/CO2 mixture or ethylene from ethylene mixture gasses…).

APPLICATIONS(2)

- Oxygen/Nitrogen separation

(1)For any other technical gas please contact us or your local dealer
(2)Sorbeo CMS can be used in variety of applications. For applications not listed please contact us or your local dealer.

TECHNICAL SPECIFICATION (Typical Values)

Pellet Diameters	1,8mm ±0,2
Bulk Density	680 - 730 g/l
Loss on drying	1.0% max. (wt)
Particle size* (2.800 – 1.180mm (7-14mesh)	99% min. (wt)
Hardness*	98% min. (wt)
PSA performance of 99% N2 at 30°C, 0,69Mpa	
Cycle time**	60 sec
Recovery, Nitrogen/Air**	37% (wt)
Produktivity N2	190 Nm3/hr.ton

*Testing method JIS K1474-2007, **Testing method OGC international method

STANDARD PACKING

MODEL	PACKAGE	MASS
SORBEO CMS-S	5,8 L container	4,0 kg
SORBEO CMS-M	16,6 L container	11 kg
SORBEO CMS-L	35,4 L container	24 kg
SORBEO CMS-XL	220 L barrel	137 kg

HANDLING AND STORAGE

Sorbeo CMS should be handled so as to avoid generation of dusty conditions at the workplace. When pouring into a container in the presence of flammable liquids, gases or dust, earth both containers electrically to prevent a static electric spark and the risk of explosion. Storage in a dry warehouse is recommended. Extended exposure to UV light degrades the big bag material and this should be avoided. Open packages should be resealed to prevent contamination and adsorption of water or other gases and vapors. Activated carbon (especially when wet) significantly lowers oxygen levels by removing oxygen from air, which causes a severe hazard to workers inside activated carbon vessels and enclosed or confined spaces. Before entering such areas, work procedures for low oxygen levels should be taken to ensure ample oxygen availability according to all local, state, and federal regulation.

Type	Adsorbent Pressure	N_2 Purity	Productivity	N_2 Recovery
	[MPa]	[%]	[$dm^3N_2/(kg \cdot h)$]	[%]
CMS-200	0.75-0.8	95	360	57,1
		97	320	50,0
		98	240	43,5
		98.5	235	42,7
		99	225	41,5
		99.5	200	38,5
		99.9	110	25,6
		99.99	70	20,8
		99.999	40	14,3
CMS-220	0.75-0.8	95	380	57,1
		97	340	50,0
		98	260	44,4
		98.5	255	43,7
		99	245	42,0
		99.5	220	39,2
		99.9	140	27,0
		99.99	100	21,3
		99.999	55	14,7
CMS-240	0.75-0.8	95	420	57,1
		97	360	50,0
		98	285	45,5
		98.5	275	44,4
		99	260	42,6
		99.5	240	40,0
		99.9	155	28,6
		99.99	110	21,5
		99.999	65	14,9
CMS-260	0.75-0.8	99	320	45,5
		99.5	260	40,0
		99.9	175	28,6
		99.99	120	21,7
		99.999	70	14,9

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