ADSORBENT CMS

(Carbon Molecular Sieve)

DESCRIPTION

CMS takes the appearance of cylindrical black solid. It contains countless 4 angstrom fine pores.
CMS is used to separate air into nitrogen and oxygen. In industry, CMS can concentrate nitrogen from air with PSA systems. The carbon molecular sieve is widely applied in petrochemical industry, heat treatment of metal, electronic manufacture and food preservation industry.

APPLICATIONS[2]

- Oxygen/Nitrogen separation

[1]For any other technical gas please contact us or your local dealer
[2]Adsorbent 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	1.1-1.2 mm 1.3-1.5 mm 1.8-2.0 mm
Bulk Density	600-700 g/l
Adsorption Rate	2 · 58 s
Pore openings	4 Å
Crush Strength	≥ 60 N
Test Temperature	≤ 20 °C

HANDLING AND STORAGE

Adsorbent 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.

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Type	Adsorbent Pressure	N2 Purity	N2 Quantity	N2 Return Ratio
	[MPa]	[%]	[L/(kg·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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