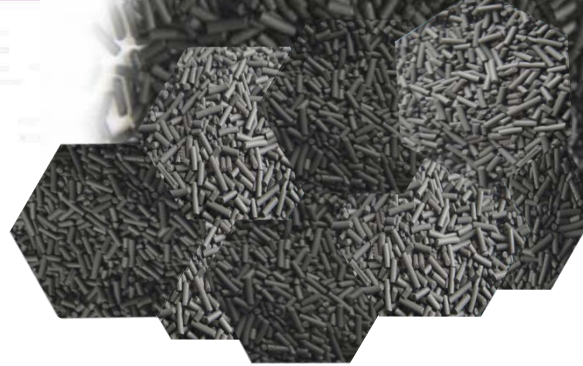


# CMS 200, 220, 240, 260

## Carbon Molecular Sieve



### Description

Carbon molecular sieve is a nonpolar adsorbent, which at room temperature and varying pressure, will adsorb oxygen and separate nitrogen from the air. This product meets the requirements of PSA nitrogen systems, yet can also be used for LPG refining, heat treatment of metal, electronic manufacturing, and in food preservation applications. For air feed systems, air supplied to the PSA system is compressed and purified to get rid of dust, oil, and water in the adsorbent bed, while adsorbing oxygen and leaving nitrogen.

### Specifications

Carbon Molecular Sieve		Pellets			
Property	Unit	CMS 200	CMS 220	CMS 240	CMS 260
Diameter	mm	1.3 - 1.5	1.3 - 1.5	1.3 - 1.5	1.3 - 1.5
Crush Strength	N ( $lbm \cdot ft/s^2$ ) per piece	$\geq 100$ ( $\geq 22.5$ )	$\geq 100$ ( $\geq 22.5$ )	$\geq 80$ ( $\geq 18$ )	$\geq 80$ ( $\geq 18$ )
Bulk Density	g/L ( $lb/ft^3$ )	630-660 (39.3-41.2)	630-660 (39.3-41.2)	630-660 (39.3-41.2)	630-660 (39.3-41.2)
Adsorption Pressure	Mpa	0.8	0.8	0.8	0.8
Nitrogen Purity	%	$\geq 99.5$	$\geq 99.5$	$\geq 99.5$	$\geq 99.5$
Productivity for Nitrogen	Nm <sup>3</sup> /h.T	200	220	240	260
Nitrogen Recovery	%	$\geq 40$	$\geq 40$	$\geq 40$	$\geq 40$
Adsorption Cycle	s	2x60	2x60	2x60	2x60
Packaging	Pellets	20 kg / plastic drum			

### Industries Used

nitrogen production

air feed systems

pressure swing adsorption

### Storage

This product has a one year shelf life. As an adsorbent, carbon molecular sieve should not be left exposed to open air and should be stored in dry conditions with air-proof packaging.

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