供应远影牌碳分子筛

产品名称	供应远影牌碳分子筛
公司名称	遠影工業有限公司
价格	45.00/公斤
规格参数	品牌:远影 粒径:1-2.2 制氮效率:高
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产品详情

碳分子筛

英文名：carbon molecular sieves

碳分子筛是20世纪七十年代发展起来的一种新型吸附剂，是一种优良的非极性碳素材料。它可用于在常温变压吸附（psa）下从氧中分离出氮。与传统相比，psa具有投资较低，启动时间短，产氮速度快，氮气成本较低等优点。

碳分子筛的原料为椰子壳、煤炭、树脂等

碳分子筛是利用氮分子和氧分子大小不同来达到分离氧气、氮气的目的。碳分子筛内部包含有大量的微孔，这些微孔允许氧气分子快速扩散到孔内，同时限制氮气等大直径分子的进入。微孔孔径大小是碳分子筛分离氧、氮的基础，如果孔径过大，氧气、氮气分子都很容易进入微孔中；而孔径过小，氧气、氮气都不能进入微孔中，起不到分离的作用。

碳分子筛加工步骤

第一步成型；

第二步是活化造孔，在600～1000℃温度下通入活化剂，常用的活化剂有水蒸气、二氧化碳、氧气以及它们的混合气；

第三步利用化学物质的蒸气调节孔径大小，例如利用苯蒸汽在碳分子筛微孔壁进行沉积来控制其微孔孔径分布，使之在0.28～0.38nm范围内。

carbon molecular sieves

carbon molecular sieve is a new kind of adsorbent developing from 1970, and is excellent non-polar carbon material. it can be used to separate the nitrogen from the oxygen under normal temperature and pressure (psa). to compare with tradition, psa (pressure swing adsorption at room temperature) has some advantages such as low investment, short start-up time, high production rate and low cost of nitrogen.

carbon molecular sieve raw material is coconut shell, coal, resin, etc.

carbon molecular sieve utilize the different sizes of nitrogen molecules and oxygen molecules to achieve the aim of separation of the oxygen and nitrogen, in carbon molecular sieve internal contains a large number of micropores, these micropores allow oxygen molecules rapidly spread into them, but large diameter such as nitrogen molecules are restricted into them. aperture size is the basis of carbon molecular sieve to separate oxygen and nitrogen, if the aperture is too large, the oxygen nitrogen molecules are easily into the pores, and if the aperture is too small, the oxygen nitrogen can ’ t spread into the pores, therefore would not achieve the effect of separation.

carbon molecular sieve processing steps:

the first step is to shape;

the second step is activation and pore-forming, spraying into activator under 600~1000°C, commonly used activator is carbon dioxide, oxygen, water vapor or mixture of them;

step 3 is using chemical steam adjusting aperture size, for example, used benzene vapor deposition in carbon molecular sieve pore wall to control its micropore aperture distribution, and make it in the range of 0.28 ~ 0.38 nm.

diameter: 1.0-2.2mm

absorption period: 2×60 second

bulk density: 630-660 g/l

crushing strength: ≥100n/p min

packing: plastic drum, 20kg/40kg