

EAST CHEMSOURCES LIMITED
NO.666 HAIBIN 12TH ROAD HUANGDAO QINGDAO CN

质检报告单——CERTIFICATE OF ANALYSIS

化学式: $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 9/2\text{H}_2\text{O}$

Chemical formula: $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 9/2\text{H}_2\text{O}$

硅铝比: $\text{SiO}/\text{Al}_2\text{O}_3 \approx 2$

Si-Al ratio: $\text{SiO}/\text{Al}_2\text{O}_3 \approx 2$

有效孔径: 约 4A

Effective aperture: about 4A

4A 分子筛主要吸附水, 甲醇、乙醇、硫化氢、二氧化硫、二氧化碳、乙烯、丙烯, 不吸附直径大于 4A 的任何分子(包括丙烷), 对水的选择吸附性能高于任何其他分子。是工业上用量最大的分子筛品种之一。

4A zeolite(cas70955-01-0) mainly adsorbs water, methanol, ethanol, hydrogen sulfide, sulfur dioxide, carbon dioxide, ethylene and propylene, and does not adsorb any molecule (including propane) with a diameter greater than 4A. Its selective adsorption performance for water is higher than that of any other molecule. It is one of the largest molecular sieve varieties in industry.

应用: 主要用于天燃气以及各种化工气体和液体、冷冻剂、药品、电子材料及易变物质的干燥, 氩气纯化, 甲烷、乙烷、丙烷的分离。

Application: It is mainly used for drying natural gas and various chemical gases and liquids, refrigerants, pharmaceuticals, electronic materials and volatile substances, purification of argon, and separation of methane, ethane and propane.

技术指标 Technical indicator:

指标 Index	单位 Unit	球状 sphericity		条状 Strip	
直径 Diameter	目 Mesh	8×12	4×8	1/16"	1/8"
静态水吸附 Static water adsorption	≥%wt	21	21	20.5	20.5
堆积密度 Stacking density	≥g/ml	0.65	0.65	0.65	0.65
抗压强度 Compressive strength	≥N	50	85	40	70
磨耗率 Rate of wear	≤%wt	0.2	0.2	0.2	0.2
烧失重 loss on ignition	≤%wt	1.5	1.5	1.5	1.5

再生：

Regeneration:

1、脱除水份：视再生气的压力、温度、含水量而定。一般情况下，200~350°C 干燥气体在 0.3~0.5kg/cm² 压力下，通过分子筛床层 3~4 小时，使出口温度到 110~180°C，冷却。

1. Moisture removal: depends on the pressure, temperature and water content of regeneration gas. In general, the dry gas at 200~350 °C passes through the molecular sieve bed for 3~4 hours under the pressure of 0.3~0.5kg/cm², making the outlet temperature reach 110~180 °C and cooling.

2、脱有机物：用水蒸汽代替有机物，然后脱除水份。

2. Organic matter removal: replace organic matter with steam, and then remove water.

储存：

Storage:

室温，相对湿度不大于 90%；不宜直接暴露于空气中；避免水、酸、碱。

Room temperature, relative humidity not more than 90%; It should not be directly exposed to the air; Avoid water, acid and alkali.

包装：纸板桶或纸箱。具体依客户要求。

Packaging: cardboard drum or carton. According to customer requirements.

注意：避免分子筛直接暴露于空气当中。

Note: Avoid direct exposure of molecular sieve to the air.

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