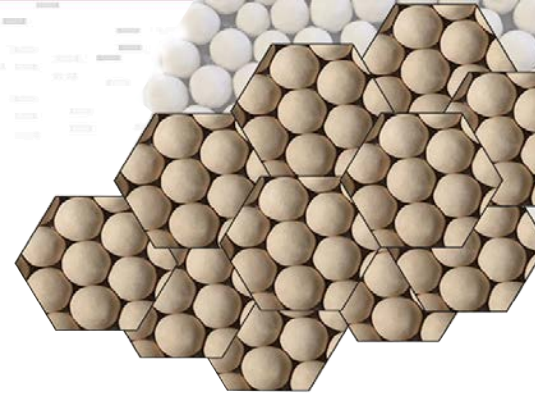


# Standard 4A

## Molecular Sieve



### Description

*Standard 4A* molecular sieve can be applied to dehydrate both liquid and gas streams, and is commonly used to remove water from air, oxygen, carbon dioxide, and hydrogen streams. In the coal, cracked, and natural gas industries, *HYG04C* is generally used for deep dehydration. This molecular sieve can also be used to dehydrate refrigerants, solvents, or to purify argon gas.

### Specifications

| Molecular Sieve                    |                                   | Beads                            |               |                        |              |
|------------------------------------|-----------------------------------|----------------------------------|---------------|------------------------|--------------|
| HYG04C                             |                                   |                                  |               |                        |              |
| Property                           | Unit                              | 4x8 Mesh                         | 4x8 *Avg      | 8x12 Mesh              | 8x12 *Avg    |
| Diameter                           | mm                                | 2.5 - 5.0                        | -             | 1.6 - 2.5              | -            |
| Bulk Density                       | g/mL ( <i>lb/ft<sup>3</sup></i> ) | 0.70-0.76 (43.7-47.4)            | 0.73 (45.35)  | 0.75-0.81 (46.8-50.6)  | 0.78 (48.7)  |
| Crush Strength                     | N ( <i>lbm*ft/s<sup>2</sup></i> ) | ≥80 (≥18)                        | 122.3 (27.47) | ≥40 (≥9)               | 56.5 (12.65) |
| Static H <sub>2</sub> O Adsorption | wt%                               | ≥21.5                            | 23.36         | ≥21.5                  | 22.63        |
| Attrition                          | wt%                               | ≤0.1                             | 0.07          | ≤0.1                   | 0.07         |
| Moisture Content                   | wt%                               | ≤1.5                             | 0.54          | ≤1.5                   | 0.63         |
| Packaging                          | Beads                             | 1,000kg (2,204.6lb) / Super Sack |               | 150kg (330.7lb) / Drum |              |

\*Avg refers to a 12 month average of lot analyses

### Industries Used

|  |   |                           |
|--|---|---------------------------|
| argon production   | natural gas dehydration                 | petroleum gas dehydration |
| cracked gas dehydration  | ammonia gas purification                | refrigerant drying        |
| biofuel production   | polar liquid drying (ethanol, methanol) | oil refining              |
| dehydration of unsaturated hydrocarbons streams (cracked gas, acetylene, ethylene, propylene, butadiene) |   |                           |

### Storage

As an adsorbent, molecular sieve should not be left exposed to open air and should be stored in dry conditions with air-proof packaging. This product should not be exposed to temperatures exceeding 350°C (662°F).

### Connect with us...

**Hengye Inc.**  
 11999 Katy Frwy, Suite 588  
 Houston, Texas 77079  
**Office** (832) 288-4288  
**Fax** (832) 288-4230  
[info@hengyeinc.com](mailto:info@hengyeinc.com)

