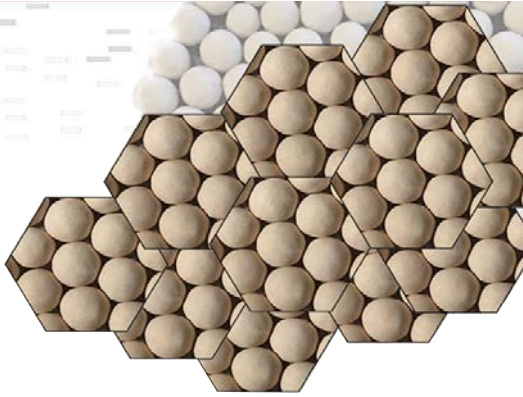
# HYD10A

## *Molecular Sieve*



### Description

*HYD10A* is manufactured to deeply dehydrate feed gas prior to cryogenic separation by removing water, carbon dioxide, and other contaminants from feed gas. The removal of these contaminants will allow the feed gas to be further separated into the desired product stream. This molecular sieve has an ideal selectivity for removing impurities that can freeze or block cryogenic separation processes.

- used to deeply dehydrate feed gas
- capable of removing water, carbon dioxide, hydrocarbons, and more
- allows gas to be further separated or otherwise used in compressors
- offers an advantageous adsorption capacity for a wide range of impurities

### Chemical Formula

$(¥)_a \times [(AlO_2)_a(SiO_2)_b] \times cH_2O$ *(¥ = Na)*

### Specifications

| Molecular Sieve | | | | | | | |
|---|---|---|---|---|---|---|---|
| **HYD10A** | | **Beads** | | | | **Pellets** | |
| **Property** | **Unit** | **4x8 Mesh** | ***4x8 *Avg*** | **8x12 Mesh** | ***8x12 *Avg*** | **1/16 Inch** | **1/8 Inch** |
| **Diameter** | mm | 2.36 - 4.76 | - | 1.68 - 2.36 | - | 1.5 - 1.8 | 3.0 - 3.3 |
| **Bulk Density** | g/mL *(lb/ft³)* | 0.65-0.71 *(40.6-44.3)* | *0.659 (41.1)* | 0.66-0.72 *(41.2-44.9)* | *0.686 (42.84)* | 0.61-0.67 *(38.1-41.8)* | 0.60-0.66 *(37.4-41.2)* |
| **Crush Strength** | N *(lbm*ft/s²)* | ≥80 *(≥18)* | *90.6 (20.36)* | ≥30 *(≥6.7)* | *33.5 (7.52)* | ≥30 *(≥6.7)* | ≥70 *(≥15.7)* |
| **Static Water Adsorption** | wt% | ≥26.0 | *27.80* | ≥26.0 | *28.46* | ≥25.0 | ≥25.0 |
| **Static $CO_2$ Adsorption** | wt% | ≥17.5 | - | ≥17.5 | - | ≥16.5 | ≥16.5 |
| **Attrition** | wt% | ≤0.1 | *0.07* | ≤0.1 | *0.07* | ≤0.4 | ≤0.4 |
| **Moisture Content** | wt% | ≤1.5 | *0.40* | ≤1.5 | *0.51* | ≤1.5 | ≤1.5 |
| **Packaging Options** | 1,000kg *(2,204.6lb)* / Super Sack; 140kg *(308.6lb)* / Drum | | | | | | |

**Avg refers to a running average of lot analyses*

### Industries Used

air separation
compressed air
feed gas dehydration
inert gas purification
siloxane removal

### 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.

## *Connect with us…*

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

HENGYE

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