



## HYG04DG

### Description:

Molecular sieve HYG04DG is a synthetic zeolite of A-type crystal structure in sodium form with a pore opening of 4 angstroms (0.4 nm).

### Application:

Applied in deep dehydration of natural gas combining high adsorption kinetics and physical stability which guarantees a longer lifespan. It is used to remove water, carbon dioxide, hydrogen sulfide and mercaptans with low molecular weight. If HYG04DG is applied in the situation of dealing with low content carbon dioxide, hydrogen sulfide (less than 200ppm) containing in the natural gas, pure natural gas can be pipeline-transported directly after adsorption.

### Specification:

| Properties              |       | Beads     |           | Pellets   |           |
|-------------------------|-------|-----------|-----------|-----------|-----------|
| Items                   | Unit  | 8×12 Mesh | 4×8 Mesh  | 1/16 Inch | 1/8 Inch  |
| Diameter                | mm    | 1.6-2.5   | 2.5-5.0   | 1.5-1.8   | 3.0-3.3   |
| Bulk Density            | g/mL  | 0.75-0.81 | 0.70-0.76 | 0.66-0.72 | 0.65-0.71 |
| Crush Strength          | N     | ≥45       | ≥90       | ≥40       | ≥80       |
| Static Water Adsorption | wt. % | ≥21.5     | ≥21.5     | ≥21.5     | ≥21.5     |
| Attrition               | wt. % | ≤0.1      | ≤0.1      | ≤0.4      | ≤0.4      |
| Moisture Content        | wt. % | ≤1.5      | ≤1.5      | ≤1.5      | ≤1.5      |

### Standard Packaging:

- Pellets: 30 Kg / Iron Drum
- Beads: 30 Kg / Iron Drum

### Attention:

- The product as adsorbent cannot be exposed in the open air and should be stored in dry condition with air-proof package.
- The product should be regenerated after a certain period of adsorption. The appropriate regenerated temperature would be better below 350 °C.