Desiccants reliably protect your gas processing system from moisture and are a crucial component of gas purification.

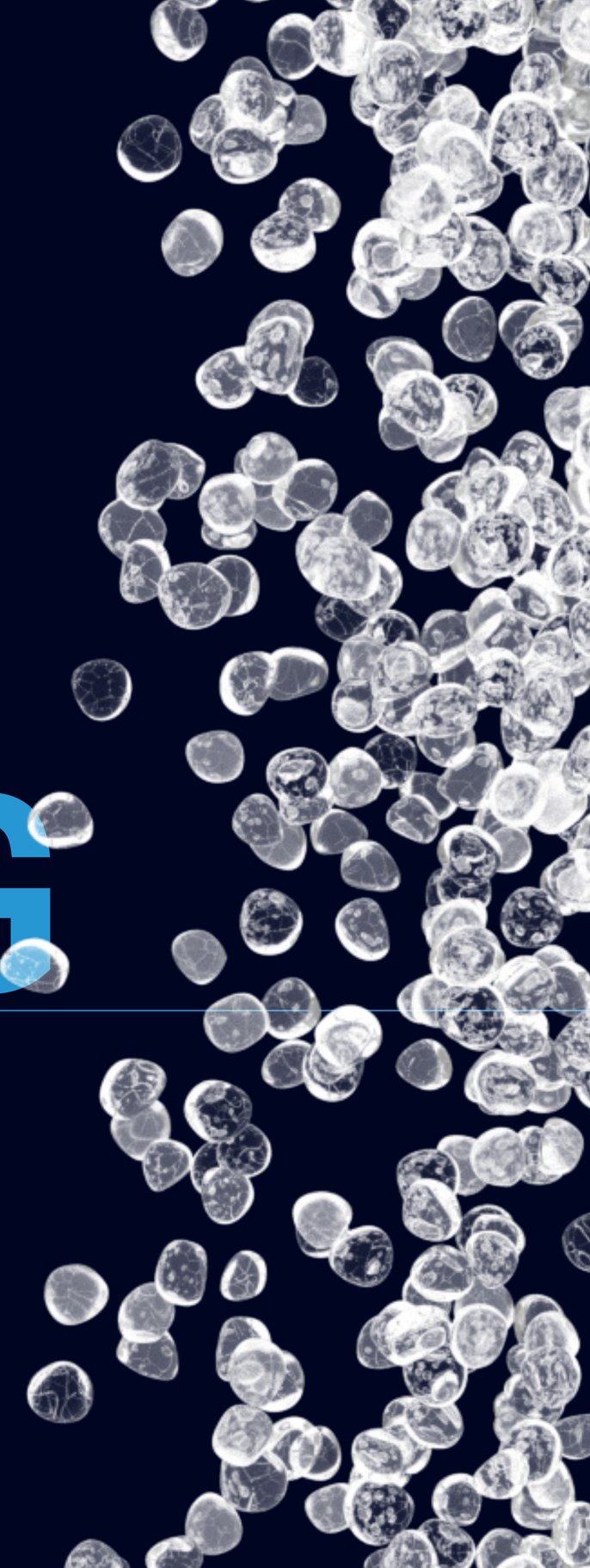
# Desiccants for **gas processing**

# Prevent damage.
# Increase gas purity.

Moisture can compromise the performance of gas processing plants and reduce gas quality.

With **GIEBEL** Desiccants, you can reliably protect gas treatment systems against corrosion in piping and equipment, prevent moisture-related membrane damage, and improve the purity of the final gas product.

# GAS Desiccants PROCESSING



## Your benefits with **GIEBEL**.

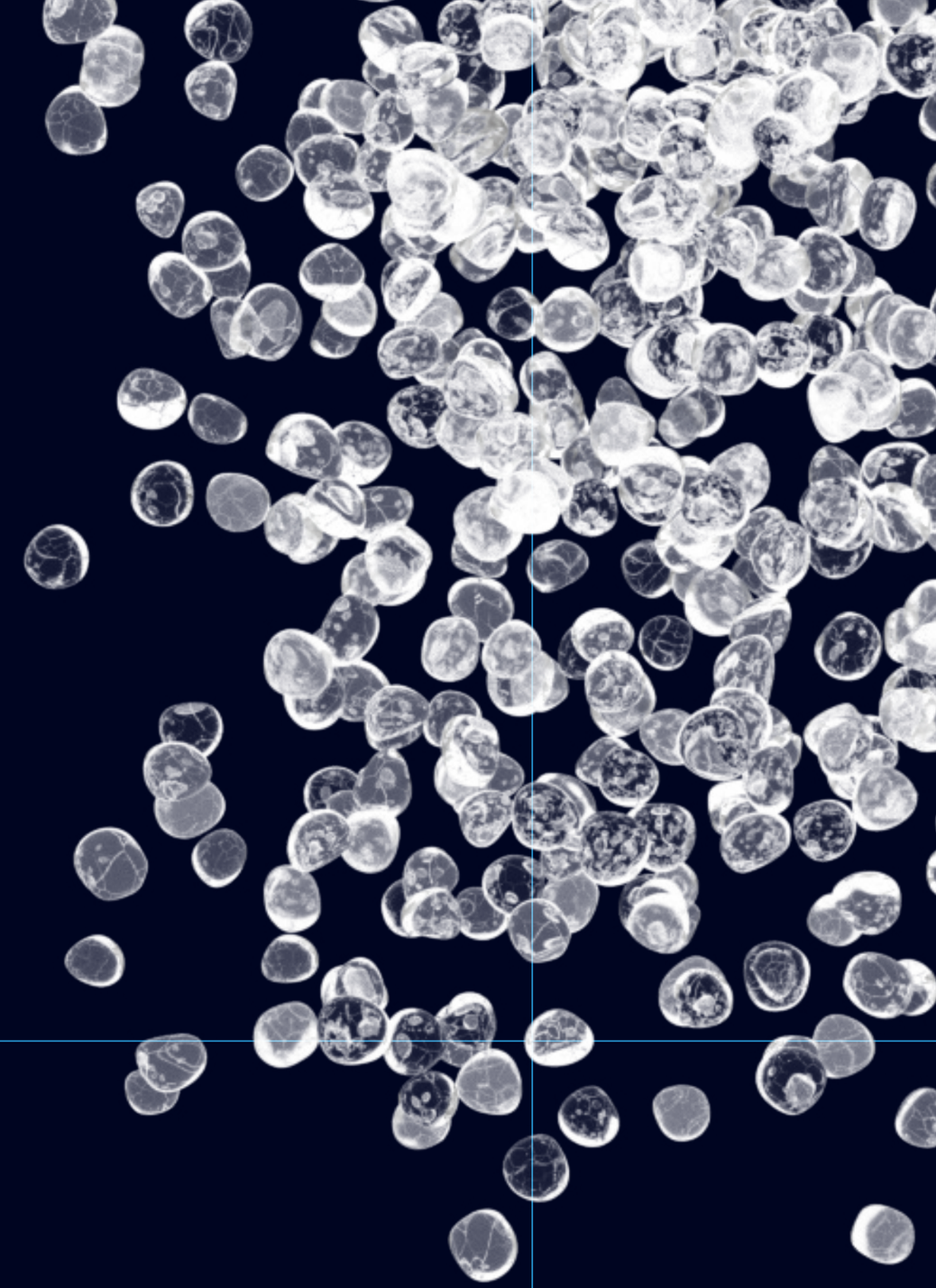
- Competitive prices
- Excellent drying performance
- Customizable blends
- High availability from stock
- Reliable alternatives to competing products
- REACH certified products

Desiccants protect **gas processing systems** from moisture, corrosion, hydrate formation, product contamination, and reduced process efficiency.

GIEBEL

SILICA GEL

# Poresphere® AL-H



Poresphere®
**AL-H**

Poresphere AL-H is used as a highly effective **pre-drying stage** in gas treatment.

This high-capacity $SiO_2$ granulate (silica gel) reliably removes water vapor, reducing the moisture load and protecting downstream catalysts, activated carbon, and molecular sieves. It helps maintain their performance and extend their service life.

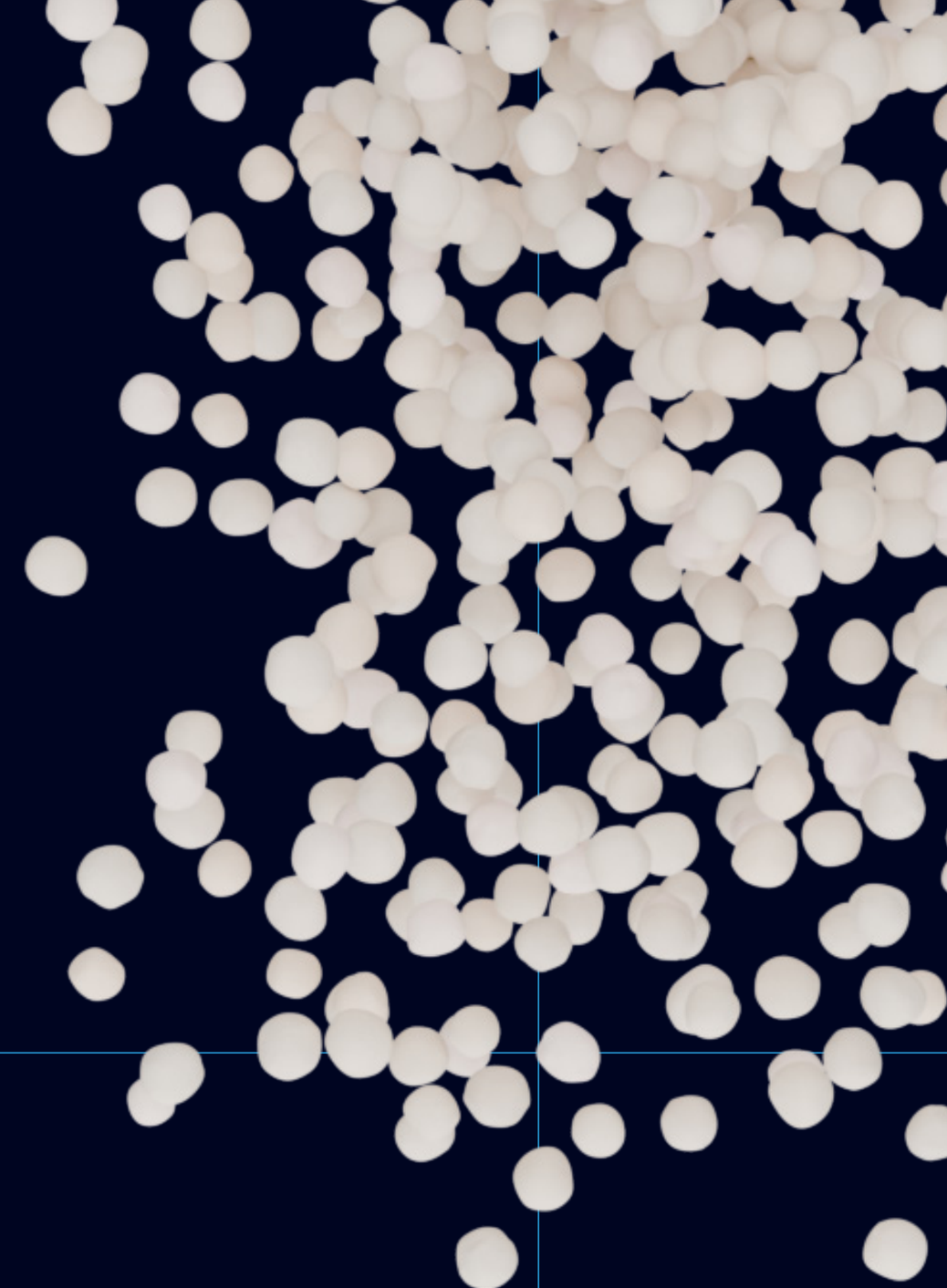
**Technical Data**

| | |
|---|---|
| Particle size: | 3-5mm spheres |
| BET surface area: | ≥ 729m²/g |
| $H_2O$ adsorption capacity: | ≥ 44% (at 80% RH) |
| Regeneration temperature: | 140°C |
| Achievable dew point: | down to -40°C |

GIEBEL

SILICA GEL

# Poresphere® AL-W



Poresphere®
**AL-W**

Poresphere AL-W is used as a highly effective **protective layer** against condensation in gas treatment.

This $SiO_2$ granulate (silica gel) with a high $Al_2O_3$ content remains structurally stable when exposed to liquid water, protecting downstream catalysts, activated carbon, and molecular sieves from moisture-related damage.

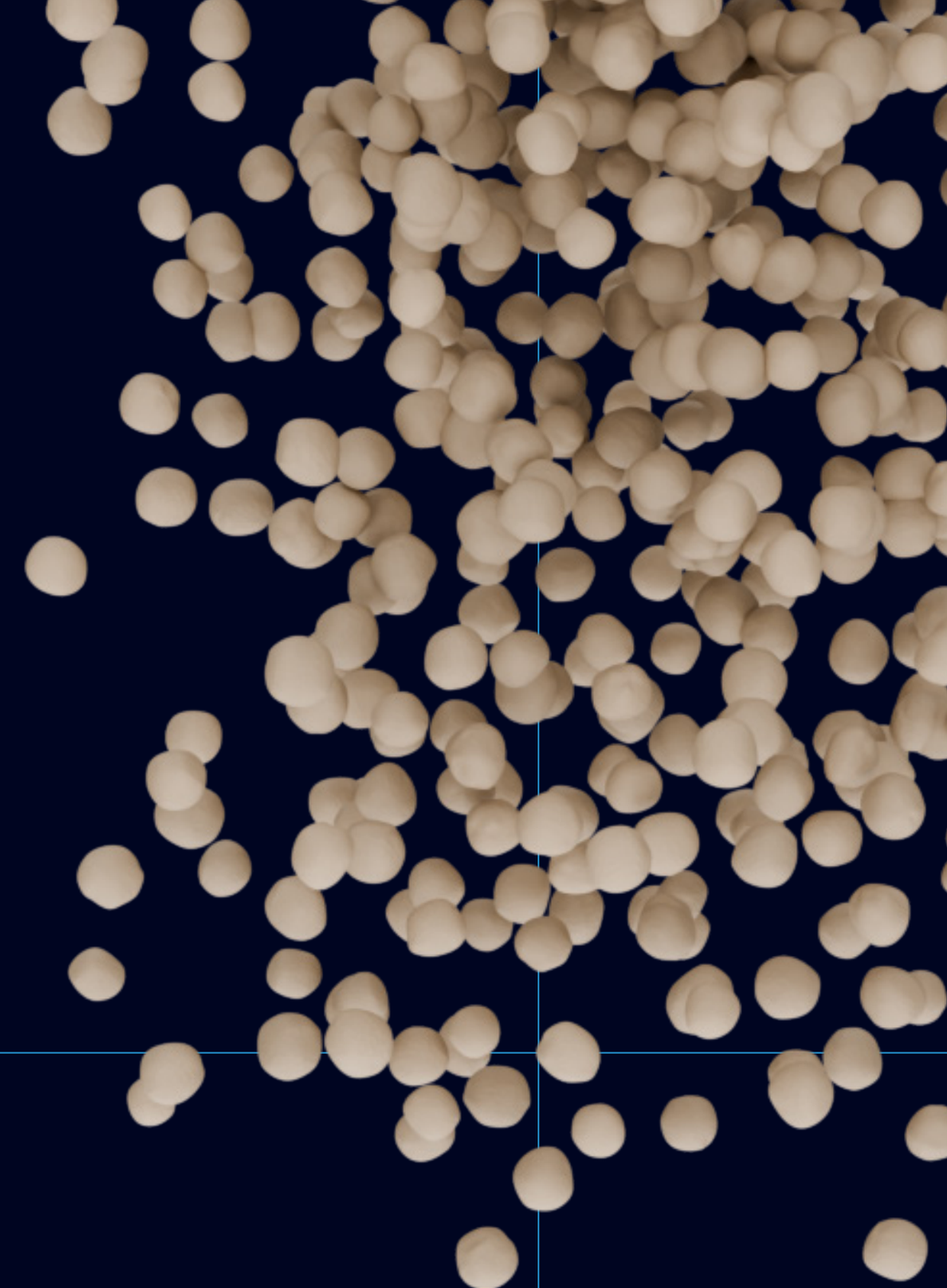
**Technical Data**

| | |
|---|---|
| Particle size: | 3-5mm spheres |
| BET surface area: | ≥ 540m²/g |
| $H_2O$ adsorption capacity: | ≥ 34% (at 80% RH) |
| Regeneration temperature: | 140°C |

GIEBEL

MOLECULAR SIEVE

# Cagesphere® 13X



Cagesphere®
**13X**

Cagesphere 13X is used as a highly effective **$CO_2$ removal and drying stage** in gas treatment.

This zeolite-based molecular sieve with a defined pore size of 10Å reliably removes $H_2O$ to ≤ 1ppm and effectively adsorbs $CO_2$. It helps achieve the high gas purity required for upgrading biogas to biomethane.

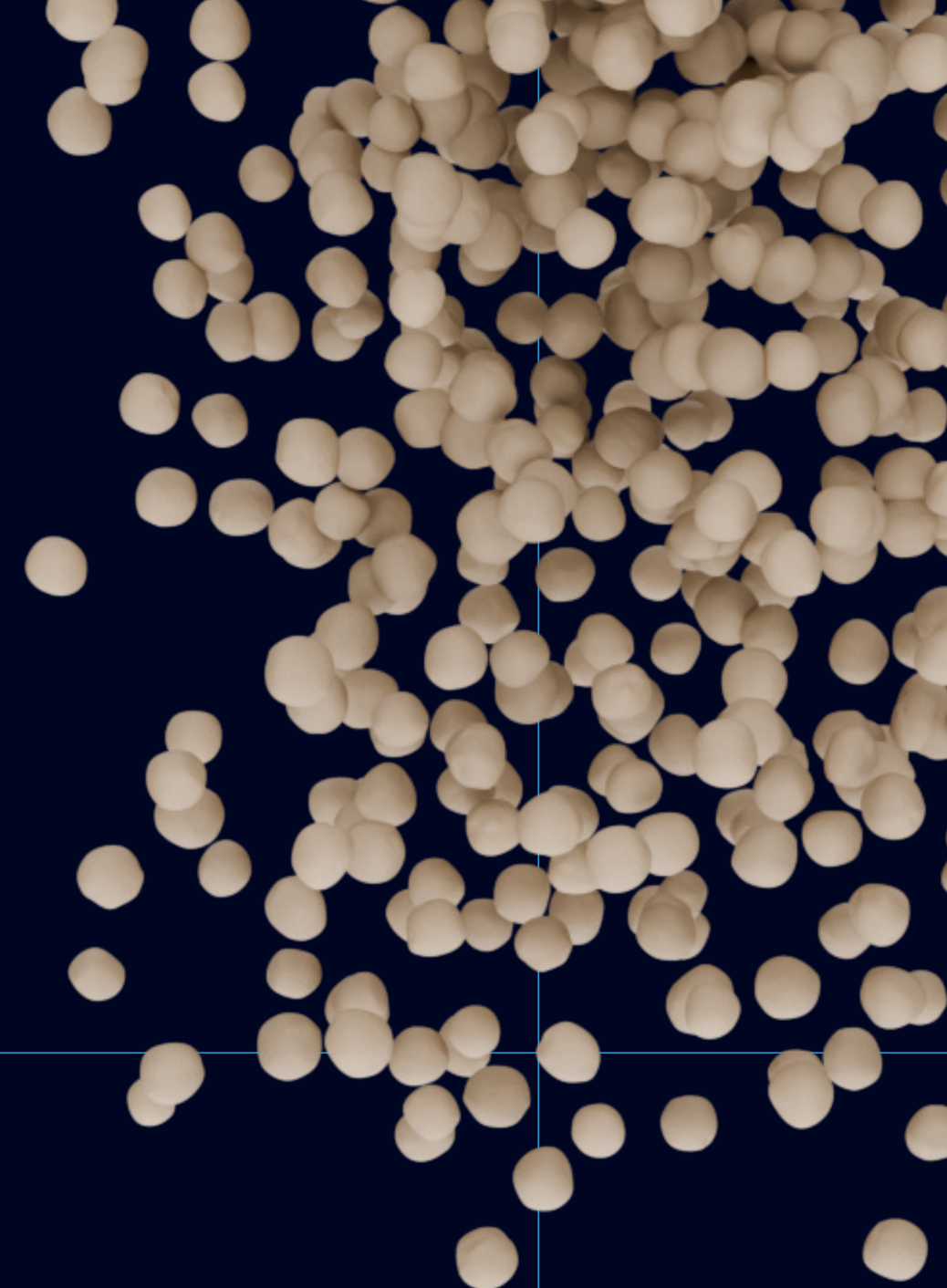
**Technical Data**

| | |
|---|---|
| Pore size: | 10Å (1.0nm) |
| $CO_2$ capacity: | ≥ 17% |
| $H_2O$ capacity: | max. 25% |
| Crush strength: | ≥ 80 N/sphere |
| Service life: | 8-10 years |
| Regeneration gas: | Hot nitrogen |

GIEBEL

MOLECULAR SIEVE

# Cagesphere® 4A



Cagesphere®
**4A**

Cagesphere 4A is used as a highly effective **$CO_2$ removal and drying stage** in gas treatment.

This zeolite-based molecular sieve with a defined pore size of 4Å reliably effectively adsorbs $H_2O$. It helps achieve the high gas purity required for upgrading biogas to biomethane.

**Technical Data**

| | |
|---|---|
| Pore size: | 4Å (0.42nm) |
| $H_2O$ capacity: | max. 23% |
| Crush strength: | ≥ 80 N/sphere |
| Regeneration temperature: | 300°C |

GIEBEL

BEST SUITED

# Packaging sizes

| | |
|---|---|
|  | **25kg** bag |
|   | **150kg** barrel |
|  | **500-1000kg** big bag on palette |

More packaging options and desiccants can be found on our website at **www.giebel-desiccants.com**.



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