

3Å MOLECULAR SIEVE FOR MANUFACTURING THERMO-INSULATING GLASS

PROPERTIES

- Controlled pore size
- Suitable for robotic or manual filling systems
- High water absorption capacity
- Low gas and air absorption
- Improves the lifetime and the efficiency of the insulating glass units
- Suitable for various spacer size and types

TESTS AND CERTIFICATES

Compliant with standard EN 1279

USE

- Absorbs residual moisture from the air trapped inside the glass unit.
- Maintains the integrity of gases (e.g., argon, krypton) within the IGU.
- Stabilizes internal pressure in the IGU, preventing stress on the seals.

TECHNICAL DATA

Appearance	Beige beads
Standard bead	1.0-1.5 mm
Small bead	0.5-0.9 mm
Nominal pore opening	3 Å
Content of particles in the declared size distribution	≥ 96 %
Bulk density	0.72-0.85 g/ml

Water adsorption capacity (at 25°C):

75 % r.h.	≥ 20 %
32 % r.h.	≥ 18 %
10 % r.h.	≥ 16.5 %

Gas desorption	≤ 0.3 ml/g
Delta T (50 g MS/50 ml water)	≥ 35°C
Available water adsorption capacity (AWAC) (t=23°C; RH +9%)	> 16 %
Loss on ignition (540°C, 3 h)	≤ 1.7 %
Dust	≤ 50 NTU**

APPLICATION

It is recommended to handle **TKK GLASS EXPERT ABSORB Z360** in a way that avoids the generation of dusty conditions in the workplace. If pouring into a container in the presence of flammable liquids, gases, or dust, electrically ground both containers to prevent static electric sparks and reduce the risk of explosion.

Follow the safety recommendations provided in the Safety Data Sheet. To maintain product quality, store it in a dry place. Opened packages should be resealed promptly to prevent contamination and the adsorption of water, moisture, or other gaseous substances. Always fill the spacers shortly before IGU assembly and avoid leaving filled spacers hanging on the production

line for extended periods to minimize air moisture adsorption, which can reduce the product's water absorption capacity.

PACKAGING

- 25kg in cardboard boxes
- 150kg in metal drums

STORAGE

At least 48 months for product in drums and not less than 24 months from production date for product in boxes in unopened, undamaged original packaging, in a dry place.

HEALTH, SAFETY HANDLING AND DISPOSAL INFORMATION

Additional information on safety, safe handling instructions and personal protective equipment as well as disposal information are available in a safety data sheet. Safety data sheet is available upon request. You can also ask your TKK distributor for a copy.

WARNING

Instructions contained in this document are based on our research and experience, however, due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.



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