



**ARDORVIS  
TECHNOLOGY**

Part of the Heat & Power Group

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## Desiccants for Industrial Drying, Separation & Gas Purification

At Ardorvis Technology Ltd, we supply and support a full range of high-performance desiccants engineered for industrial gas drying, purification, and separation. Whether you're operating a biogas upgrading plant, cryogenic separation system, or compressed air facility, we deliver complete solutions—including bulk media supply, OEM-compatible replacements, and on-site desiccant changeout services.

From synthetic zeolite powders to activated alumina, our desiccant solutions are trusted across energy, chemical, pharmaceutical, and environmental sectors.

### What We Offer:

- Bulk desiccant supply (powder, beads, pellets)
- OEM and retrofit-compatible grades
- Full spent desiccant replacement service
  - On-site vessel opening, purging, removal, and refill
  - Repacking of media beds and recommissioning
- Technical support for selection, sizing, and regeneration planning

## Product Categories

### Synthetic Zeolite Powder

Crystalline aluminosilicates used in formulating desiccant beds, catalyst supports, or drying coatings.

**Grades:** 3A, 4A, 5A, 13X, MSX, LSX, NaLSX, LiLSX

**Applications:** PSA oxygen generation, polymer additives, IG units, coating systems

### Molecular Sieves

High-performance adsorbents with precise pore sizes for selective removal of water, CO<sub>2</sub>, hydrocarbons, and nitrogen.

**Available forms:** Beads, pellets, activated powder

**Core grades:** 3A, 4A, 5A, 13X

**Specialist series:**

- **JLCO-1:** High CO<sub>2</sub> selectivity (ideal for biogas and carbon capture)
- **JLPM1 / JLPM3:** High-capacity PSA sieves for oxygen generation

**Applications:**

- Biogas purification
- PSA/VPsA oxygen and nitrogen
- Natural gas conditioning
- CO<sub>2</sub> capture from flue gas
- Cryogenic ASU dehydration

**Activated Zeolite Powder**

Highly active dehydrated zeolite for use in sealants, coatings, adhesives, and plastic formulations.

**Grades available:** 3A / 4A / 5A / 13X

**Activated Alumina**

A regenerable adsorbent with large surface area, ideal for moisture and acid gas removal in harsh service conditions.

**Sizes stocked:** 1–2 mm, 2–5 mm, 3–5 mm, 5–8 mm

**Applications:**

- Compressed air dryers
- Biogas H<sub>2</sub>S and water removal
- Catalyst protection
- Fluoride removal in water

**Desiccant Replacement Services**

We offer **turnkey desiccant changeout** for vessels and systems of all sizes. Our team handles:

- Safe depressurisation, inerting, and vessel opening
- Spent desiccant removal (manual or vacuum assist)
- Internal vessel inspection and bed condition assessment
- New media filling with layer-by-layer packing (if applicable)
- Sealing, leak checks, and recommissioning
- Waste material documentation and compliant disposal

Available on-site or off-site, with optional bundling of new desiccant supply, labour, and commissioning support.

## Trusted in Demanding Industries

- Biogas and biomethane upgrading
- Cryogenic gas and ASU plants
- Compressed air systems
- Petrochemical and refinery off-gas
- Medical oxygen generation (PSA)
- Water and wastewater gas handling

## Why Ardorvis?

- Full lifecycle support: supply, install, regenerate, replace
- Access to leading products
- Expertise in CO<sub>2</sub> capture, oxygen generation, and PSA system optimisation
- On-site service teams covering the UK and EU industrial sector
- All materials supplied with TDS, MSDS, and CoA on request

**Contact us today** to arrange a desiccant supply quote, vessel inspection, or to schedule your next system changeout.