

Sorption Testing

High-throughput adsorption/desorption breakthrough - curve testing to accelerate your R&D

High Quality Results

- Consistent and reliable data
- Compelling track record with Flowrence technology
- Unparalleled accuracy
- Industrially scalable results

Peace-of-Mind

- Overcome your equipment and/or staff constraints Applying you QHSE standards
- Access to state-of-the-art technology & experts
- Solving difficult testing challenges
- Guaranteed confidentiality

Effective Collaboration

- Focus on your needs and objectives
- Easy to work with
- Result oriented – timely delivery



Breakthrough curves of ethylene on Zeolites [Ca]A and [Ag]

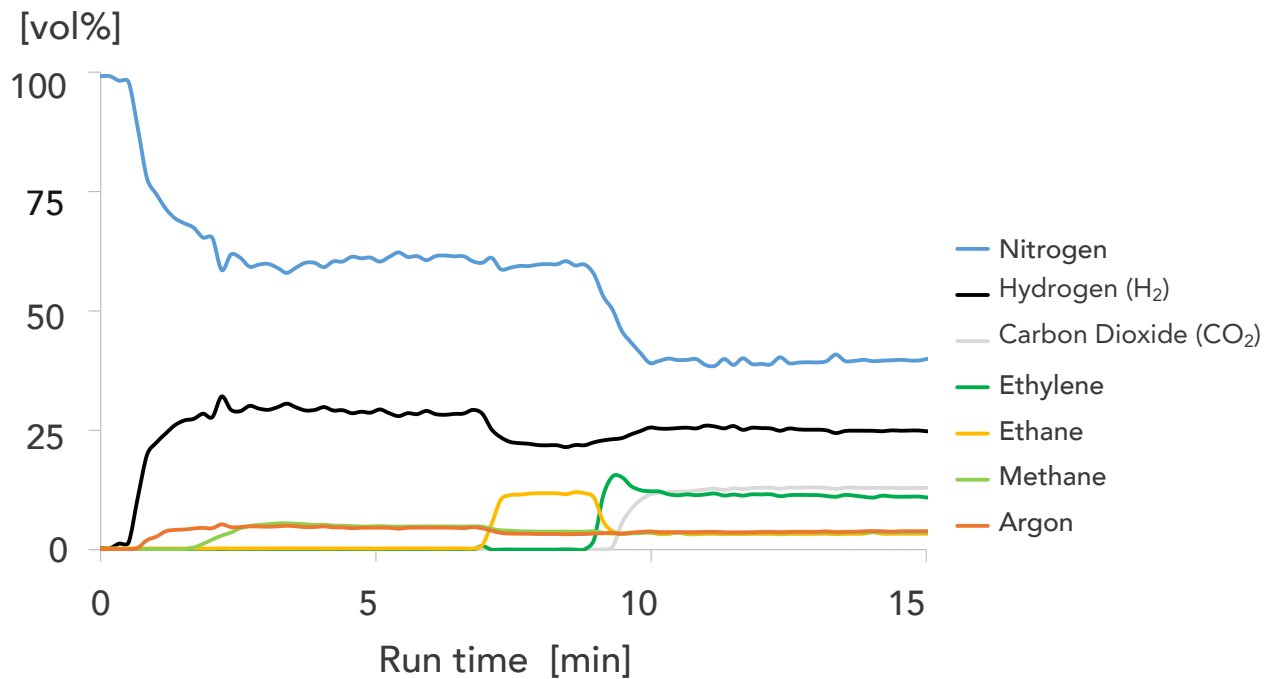


Figure 1: Sorption breakthrough curve analysis of complex gas mixtures with Avantium high-throughput R&D systems

Are you looking for high-throughput adsorption testing R&D solutions?

- Adsorption separation of complex gas and liquid mixtures
- Pressure/Temperature swing adsorption/desorption
- Air/Gas mixture purification
- Parallel breakthrough testing
- Fast analytics
- Determination of Adsorption capacity.

Proven case study: Adsorptive separation from complex gas mixtures

Avantium's state-of-the-art testing platform has been successfully employed to test both the capacity and selectivity of complex gas mixtures:

- Rajamani Krishna, Ilona van Zandvoort, Jan Kees van der Waal, Erik-Jan Ras, Robbert de Graaf, Separation and Purification Technology 227 (2019) 115730
- Ilona van Zandvoort, Gerard P.M. van Klink, Ed de Jong, Jan C. van der Waal, Microporous and Mesoporous Materials Volume 263, June 2018, Pages 142-149)