

# Exmere Ltd.

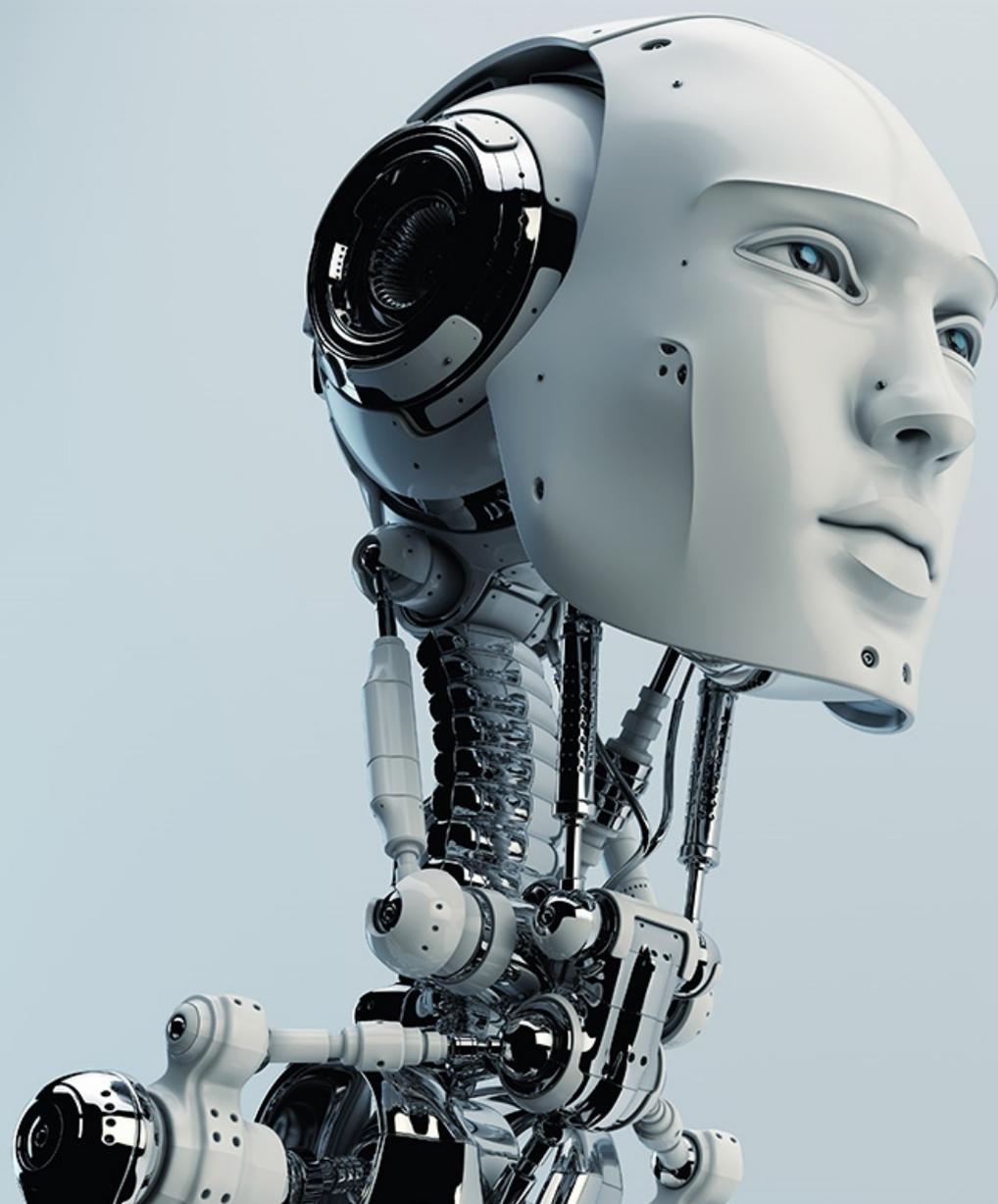
Silica Engineering

MonoSil™  
Exsil Mono™

Ultra High Purity Phases

## Exsil™ Mono

### The Next Generation of Silica



## Silica Bulk for HPLC

The Best for the Best

- Highly Efficient and Perfect Reproducibility
- Monosized Silica Particles
- Exceptional Performance

Exsil Mono	Specifications
Phase	Si, C8 and C18 (others on request)
Encapping	yes
Typical Efficiency	>90,000 plates/m (for 5µm)
Surface Area	350 m <sup>2</sup> /g, 100 m <sup>2</sup> /g
Pore Size	100Å, 300Å
Particle Size	1.7, 3, 5, 7 and 10µm

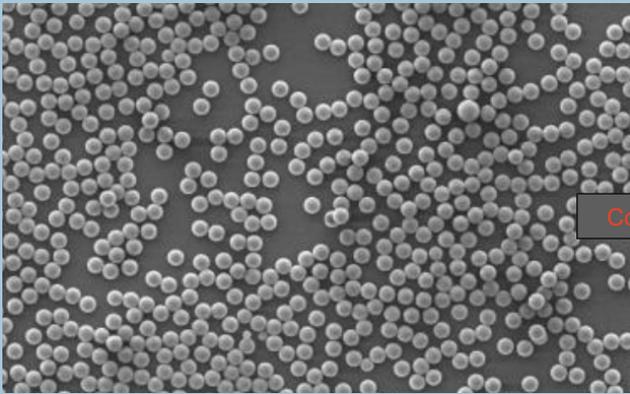
### Why Exsil Mono?

Exmere Ltd. sets a new standard in HPLC packing media. We make everything - from the silica particle to the finished product. Our unique manufacturing process allows to deliver the highest performance at an exceptional value!

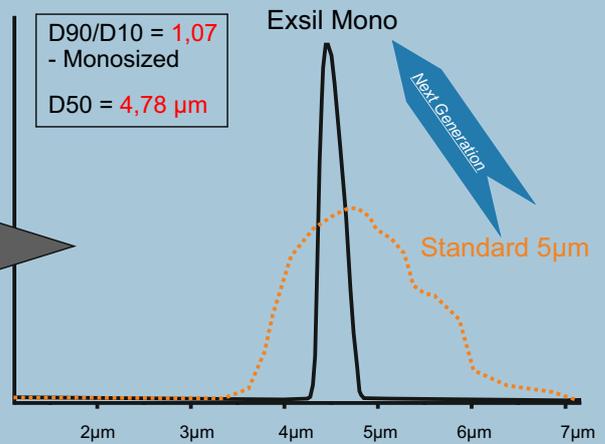
### Benefits

- + Lower backpressure
  - + Higher Performance
  - + Easy Column Packing
  - + Fully Scaleable from UPLC to Prep.
  - + Perfect particle strength
  - + Unique bonding technology
  - + High Loading Capacity
  - + Very High Alkyl Loaded (pH stable up to 11)
  - + Available up to 250 kg
  - + Tailormade Modifications on Request!
- We are optimising your application**

### Exsil Mono 100 Si, 5µm



Coulter Counter



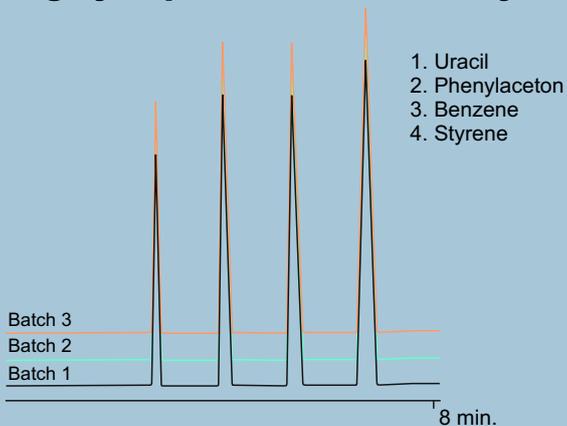
### Reproducible Methods Start with Reproducible Silica Bulk

Our tightly controlled silica synthesis and bonding keep capacity factor and selectivity variations to a minimum. The advanced packing methods deliver consistently high column-to-column efficiency.

### Expect Competitive Performance

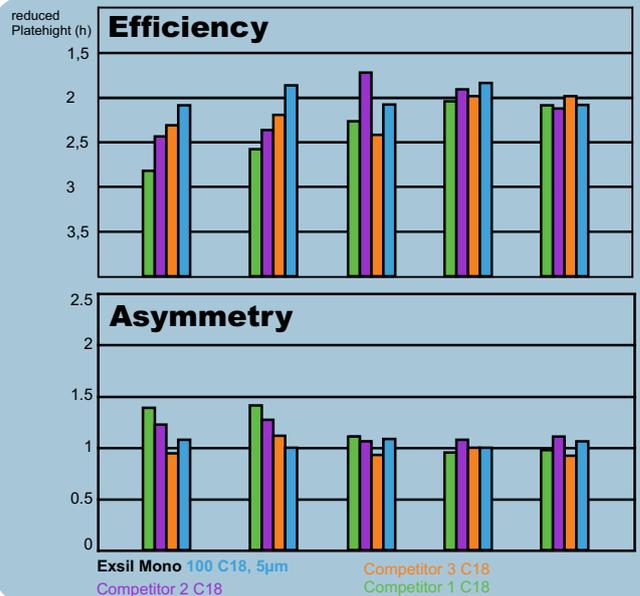
Exsil Mono columns show equal or better efficiency and symmetries for challenging base and acid components in comparison to industry leading columns

### Highly Reproducible Selectivity



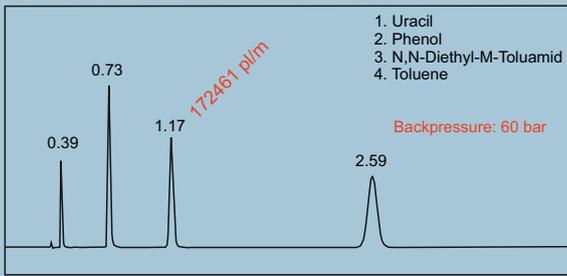
Column: Exsil Mono 100 C18 Column, 5µm, 4.6 x 150mm (PN: 524131095.s1546)  
MobilePhase: ACN / H<sub>2</sub>O 60:40  
FlowRate: 1.0mL/min  
Detector: UV at 254nm  
InjectionVol: 3µl

Consistent batch-to-batch capacity



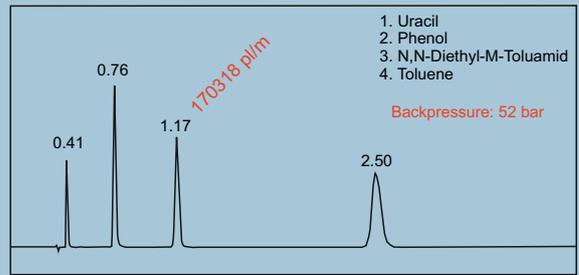
Exsil Mono columns compares favorable to leading competitor columns

### Exsil Mono 100 C18, 3µm



**Column:** Exsil Mono 100 C18 Column, 4.6 x 150mm  
(PN: 524131095.s1546)  
**MobilePhase:** ACN / H<sub>2</sub>O 60:40  
**FlowRate:** 1.0mL/min  
**Detector:** UV at 254nm  
**InjectionVol:** 3µl

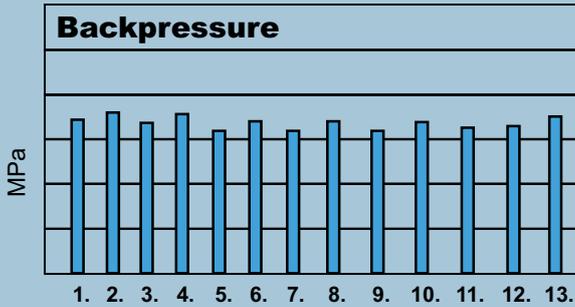
### Competitor K 100 C18, 3.5µm



**Column:** Column K 100 C18 Column, 4.6 x 150mm  
**MobilePhase:** ACN / H<sub>2</sub>O 60:40  
**FlowRate:** 1.0mL/min  
**Detector:** UV at 254nm  
**InjectionVol:** 3µl

## Choose Exsil Mono for Preparative Separation

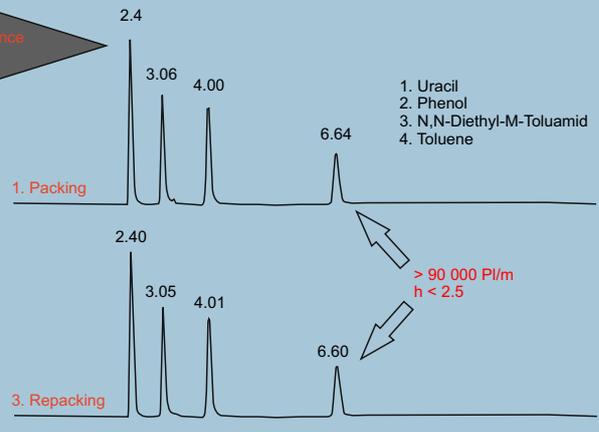
### DAC Column Packing MODcol Spring Column 1"



- Exsil Mono 100 C18, 5µm  
- No pressure increase after 13 Repacking Cycles

Same performance  
after repacking

### DAC Column Performance



**Column:** Exsil Mono 100 C18, 5µm (PN: 524131095.SC2525)  
**Dimension:** 150 x 25 mm  
**Mobile Phase:** MeOH/H<sub>2</sub>O 80/20  
**Flow:** 20 ml/min  
**Detector:** UV at 254 nm

packed by

**Dr. Maisch GmbH**

Any Column, Any Size, Any Media

The information presented herein is derived from our testing and experience. It is offered, free of charge, for your consideration, investigation and verification. Since operating conditions vary significantly, and since they are not under our control, we disclaim any and all warranties on the results which might be obtained from the use of our products. You should make no assumption that all safety or environmental protection measures are indicated or that other measures may not be required. This product(s) may be covered by patents or patents pending. Exmere Ltd. reserves the right to change prices and/or specifications without prior notification. Pictures licensed by Shutterstock.com. Printed in the England and/or Germany.

**Exmere Ltd.**  
Silica Engineering

Unit 8, Boundary Way,  
Business Park  
Carnforth, LA5 9XP  
United Kingdom  
Fon: +44(0)1524 727934  
Fax: +44(0)1524 733599  
E-mail: [info@exmere.eu](mailto:info@exmere.eu)  
web: [www.exmere.eu](http://www.exmere.eu)

Dealer: