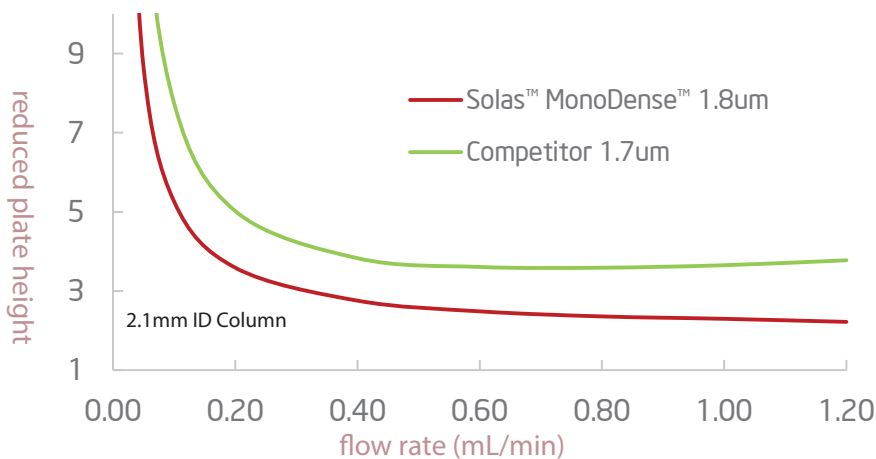


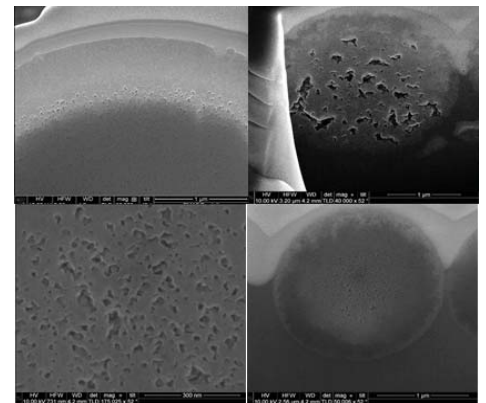
What is SOLAS™ MonoDense™

SOLAS™ MonoDense™ is a proprietary process for the world's first monodense fully porous silica particle for use in HPLC and UHPLC. Have you ever imaged fully porous silica particles using state of the art focused ion beam (FIB) milling techniques (normally utilised in microfabrication environments)? If you did you would find that the inside of traditional fully porous silica particles contains voids or holes. These voids can be up to an order of magnitude bigger than the pore size of the silica. These holes or voids cause mass transfer issues which can lead to peak broadening, peak tailing and ultimately losses in efficiency. By comparison the SOLAS™ MonoDense™ particles are monodense and contain a homogeneous pore structure which allows for the efficient transfer of analytes into and out of the silica pore structure, thereby leading to more efficient and effective chromatography. Additionally, the Glantreo particles represent a media that is easier to pack with a reduced failure rate in packing.

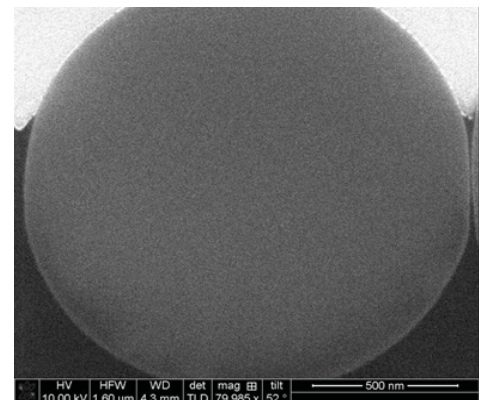
Effect of monodensity on Van Deemter



FIB: Competitor Silica



FIB: SOLAS™ MonoDense™



Conclusions:

- superior performance at all flow rates to competitor
- faster flow rates possible without compromising performance

Typical Physical Properties

Product Ref.	PFPP1.7120R	PFPP1.990R	PFPP3.090R
Particle Size	1.7 µm	1.9 µm	3.0 µm
Pore Diameter	120 Å	90 Å	90 Å
Surface Area	320 m ² g ⁻¹	290 m ² g ⁻¹	290 m ² g ⁻¹
Pore Volume	0.80 cm ³ g ⁻¹	0.65 cm ³ g ⁻¹	0.65 cm ³ g ⁻¹
d ₉₀ /d ₁₀	1.40	1.35	1.40

Physical Properties are tunable so custom particles available.

Range of chemistries available: C1, C4, C8, C18.

Packed columns available for benchmark studies.

Test packs available that include raw powder, bonded ready-to-pack silica and packed QC column.

Glantreo Limited

ERI Building, Lee Road,
Cork, Ireland.

Contact: John Hogan

+353 86 8643079

j.hogan@glantreo.com

info@glantreo.com

www.glantreo.com