



Process scale
chromatography silica
(HP) and reversed phase

Discover the benefits of the new YMC*Gel HG-silica-base

Author: SN
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NEW YMC*Gel HG-Type silica phases offer added value at no extra cost.

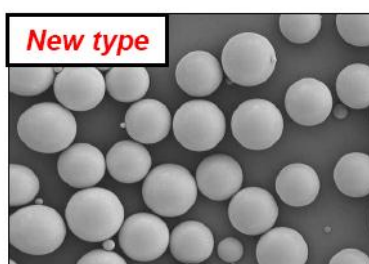
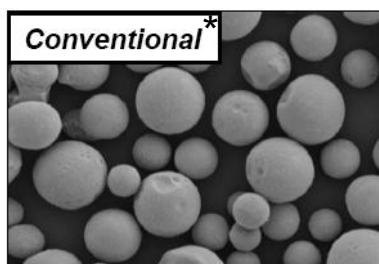
The continuous improvement of our bulk material is a central issue at YMC. Combining a new base silica with narrower particle- and pore-size distribution gives rise to our new YMC*Gel HG-phases.

The benefits for your applications include:

- Even greater reproducibility
- Lower operating pressures
- Increased durability, longer life cycle
- Further improvement in packing performance

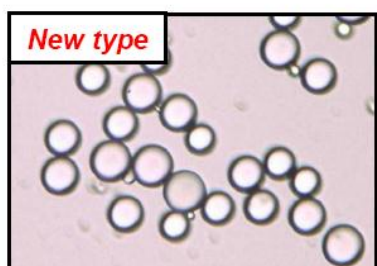
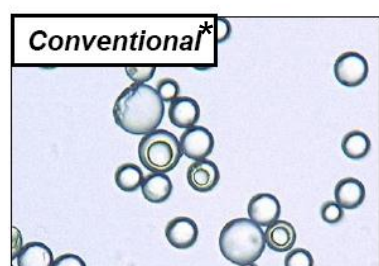
Simply by looking at the new particles under the microscope, the differences to conventional base silica material become apparent. Scanning electron microscope (SEM) images clearly show that the particle surfaces of the HG-Phases are perfectly round and smooth. Furthermore, the HG-Phase material shows virtually no hollow “balloon-particles” under the light microscope (see images below).

SEM image



Reduced
backpressure and
improved
performance due
to higher particle
uniformity

Optical microscope image



Better packing
and repacking
efficiencies
because of less
“balloon particles”

*For illustration purposes only



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Trusted selectivity - always available:

YMC's customers have put their trust in us for more than 30 years for one important reason: our unchanged product availability. This is why all those materials you currently use will continue to be available. Any phases which are used or will be used in validated processes or methods will continue to be available for the entire life cycle of your products.

In order to meet our customers demands regarding cost and process efficiency we will be offering the YMC*Gel HG-Phases for all new inquiries and projects.

The following YMC*Gel HG-Phases are now available:

Product name	Abbreviation	Bonding	Description
YMC*Gel ODS-A-HG	AAG	C18	Fully endcapped C18 phase
YMC*Gel ODS-AQ-HG	AQG	C18	Fully endcapped C18 phase optimised for polar compounds separation
YMC*Gel C8-HG (Octyl)	OCG	C8	Fully endcapped C8 phase
YMCbasic-HG	BAG	Proprietary	Proprietary bonding
YMC*Gel C4-HG (Butyl)	BUG	C4	Fully endcapped C4 phase
YMC*Gel TMS-HG (C1)	TMG	C1	Lowest hydrophobicity
YMC*Gel Ph-HG (Phenyl)	PHG	Phenyl	Fully endcapped phenyl phase
YMC*Gel NH ₂ -HG (Amino)	NHG	Aminopropyl	For normal phase
YMC*Gel CN-HG (Cyano)	CNG	Cyanopropyl	Fully endcapped cyano phase
YMC*Gel Diol-HG	DLG	Diol	For SEC and normal phase
YMC*Gel SIL-HG	SLG	-	Silica for normal phase

The HG-Phases are available in particle sizes from 10µm to 50 µm and pore sizes from 12nm to 30nm in multi-ton quantities if required. Please contact us for a list of all available phases.

If you need more information, or if you want to request a sample, please contact:

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Tel.: +49 (0) 2064 427-271

Or contact your local distributor via the YMC web site:
http://www.ymc.de/ymceurope/about/YMC_AU_distributors.html