

Solid Supports and Packings

HayeSep® Porous Polymers

- Pre-Purified Porous Polymers for GC
- Less Bleed and Shrinkage than Other Porous Polymers
- Conditioned

HayeSep® manufactures polymers with guaranteed consistent batch to batch performance, no shrinkage and minimum bleed. These polymers are thoroughly cleaned and conditioned to 200°C (165°C for N and T) under oxygen-free nitrogen before packaging.

Several HayeSep® polymers were developed to solve specific separation problems. These include the room temperature separation of N₂, O₂, Ar and CO with HayeSep® A; ppm H₂O in the presence of HCl, Cl₂ etc. with HayeSep® R; and many others. The HayeSep® D series better separates the fixed gases to the C₂ hydrocarbons. Small differences in pore sizes between the members of this series can make dramatic differences in the separations.

Porapak® Specifications			
Series	Polymer	Surface area	Polarity
Q	DVB*	582m ² /g	Non-polar
P	DVB*/Styrene	165m ² /g	Slightly Polar
R	DVB*/N-Vinyl-2-pyrrolidinone	344m ² /g	Moderately Polar
S	DVB*/4-Vinyl-pyridine	583m ² /g	Moderately Polar
T	EGDM**	250m ² /g	Very Polar
N	DVB*/EGDM**	405m ² /g	Very Polar
A	DVB*/EGDM** (high purity)	526m ² /g	Moderately Polar
B	DVB*/Polyethyleneimine	608m ² /g	Very Polar
C	DVB*/Acrylonitrile	442m ² /g	Moderately Polar
D	DVB* (high purity)	795m ² /g	Non-Polar

* Divinylbenzene, ** Ethyleneglycoldimethacrylate

Comparison of HayeSep® "D" Formulations							
Retention time (minute)*							
Series	Air	CH ₄	CO ₂	C ₂ H ₄	C ₂ H ₄	C ₂ H ₆	H ₂ O
DIP	0.9	1.7	3.1	5.4	5.8	8.3	9.0
D	0.9	1.7	3.1	5.8	6.1	8.4	8.6
DB	0.9	1.6	3.1	6.1	6.6	8.7	8.1

* Retention data based on 10ft x 1/8" SS at 45°C, 30mL/min.

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Ordering Information		
Mesh size	QTY	Part No.
HayeSep® Q		
60/80	75cc	0900-E001
80/100	75cc	0900-E002
100/120	75cc	0900-E003
HayeSep® P		
60/80	75cc	0900-E004
80/100	75cc	0900-E005
100/120	75cc	0900-E006
HayeSep® R		
60/80	75cc	0900-E007
80/100	75cc	0900-E008
100/120	75cc	0900-E009
HayeSep® S		
60/80	75cc	0900-E010
80/100	75cc	0900-E011
100/120	75cc	0900-E012
HayeSep® T		
60/80	75cc	0900-E013
80/100	75cc	0900-E014
100/120	75cc	0900-E015
HayeSep® N		
60/80	75cc	0900-E016
80/100	75cc	0900-E017
100/120	75cc	0900-E018
HayeSep® A		
60/80	75cc	0900-E019
80/100	75cc	0900-E020
100/120	75cc	0900-E021
120/140	75cc	0900-E022
HayeSep® B		
60/80	75cc	0900-E023
80/100	75cc	0900-E024
100/120	75cc	0900-E025
HayeSep® C		
60/80	75cc	0900-E026
80/100	75cc	0900-E027
100/120	75cc	0900-E028
HayeSep® D		
60/80	75cc	0900-E029
80/100	75cc	0900-E030
100/120	75cc	0900-E031
HayeSep® DIP		
60/80	75cc	0900-E032
80/100	75cc	0900-E033
100/120	75cc	0900-E034
HayeSep® DB		
60/80	75cc	0900-E035
80/100	75cc	0900-E036
100/120	75cc	0900-E037