# µBondapak Columns

Waters makes the only column that contains the µBondapak® $C_{18}$ packing material. Other column manufacturers claim their products exhibit "µBondapak-like" selectivity. Yet none of them ever passed Waters' stringent QC batch tests. Since 1973, µBondapak and Bondapak® packing materials have demonstrated year-to-year reproducibility, which is why µBondapak remains among the most frequently referenced column brands.

Column Characteristics

| | $C_{18}$, 125Å | CN, 125Å | $NH_2$, 125Å | Phenyl, 125Å |
|---|---|---|---|---|
| | HPLC: 10 µm | HPLC: 10 µm | HPLC: 10 µm | HPLC: 10 µm |
| Carbon Load* | 10% | 6% | 3.5% | 8% |
| Endcap Style | L1 | L1 | L8 | L11 |
| USP Class No. | Proprietary | Proprietary | None | Proprietary |
| Performance Standards | **Neutrals QC Reference Material** p/n: 186006360 | – | – | **Neutrals QC Reference Material** p/n: 186006360 |
| Application Standards | **Reversed-Phase QC Reference Material** p/n: 186006363 | – | – | **Reversed-Phase QC Reference Material** p/n: 186006363 |

*Expected or approximate value.

## Ordering Information

µBondapak/Bondapak

| | Dimension | P/N |
|---|---|---|
| | Particle Size: 10 µm | |
| $C_{18}$, 125Å | 3.9 × 150 mm | WAT086684 |
| | 3.9 × 300 mm | WAT027324 |
| | 4.6 × 150 mm | WAT044370 |
| | 4.6 × 300 mm | 186000925 |
| CN, 125Å | 3.9 × 150 mm | WAT086688 |
| | 3.9 × 300 mm | WAT084042 |

| | Dimension | P/N |
|---|---|---|
| | Particle Size: 10 µm | |
| $NH_2$, 125Å | 3.9 × 300 mm | WAT084040 |
| Phenyl, 125Å | 3.9 × 150 mm | WAT086680 |
| | 3.9 × 300 mm | WAT027198 |

**For µBondapak/Bondapak and µPorasil/Porasil Preparative Columns, please refer to page 215.**

# µPorasil/Porasil Columns

µPorasil™ and Porasil™ particles were one of the first commercially available, fully porous packing materials used for LC separations.

In contrast to the reversed-phase separation ability of µBondapak $C_{18}$, the non-bonded, silica-based material in µPorasil Columns was produced to provide normal-phase separations for a wide array of sample types.

Column Characteristics

| | Silica, 125Å |
|---|---|
| | HPLC: 10, 15–20 µm |
| Carbon Load* | N/A |
| Endcap Style | L3 |
| USP Class No. | None |

*Expected or approximate value.

## Ordering Information

µPorasil/Porasil

| | Dimension | P/N |
|---|---|---|
| | Particle Size: 10 µm | |
| µPorasil, 125Å | 3.9 × 300 mm | WAT027477 |