



HICHROM

Chromatography Columns and Supplies

LC COLUMNS
Waters μ Bondapak and
Nova-Pak

Catalogue 9

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Waters μ Bondapak™

- Irregular porous silica
- 10 μ m particle size
- Guard-Pak™ or Sentry™ guards

μ Bondapak™ materials have been manufactured by the Waters Corporation for over 30 years. Four bonded phases are available. Columns can be protected by either Guard-Pak™ or Sentry™ guard cartridges.

μ Bondapak Phases

Chemistry	Particle Shape	Particle Size (μ m)	Pore Size (Å)	Carbon Load (%)	Endcapped
C18	Irregular	10	125	10	Yes
Phenyl	Irregular	10	125	8	Yes
CN	Irregular	10	125	6	Yes
NH2	Irregular	10	125	3.5	No

Ordering Information – Analytical Columns

μ Bondapak Phase	Column Dimensions (mm)				Sentry Guard ¹ (2/pk, 20 x 3.9mm)	Guard-Pak ² Inserts (10/pk)
	300 x 2.1	150 x 3.9	300 x 3.9	150 x 4.6		
C18	86609	86684	27324	44370	44480	88070
Phenyl	-	86680	27198	-	46850	26745
CN	-	86688	84042	-	46855	26750
NH2	-	-	84040	-	46865	26760

¹ Use with universal Sentry guard holder 46910

² Use with Guard-Pak holder 88141

Waters Nova-Pak®

- Spherical porous 4 μ m particle size silica
- Traditional and cartridge hardware
- Guard-Pak or Sentry guards

Nova-Pak® columns are manufactured by the Waters Corporation. Four bonded phases are available in traditional and cartridge column format, protected by either Guard-Pak or Sentry guard cartridges.

Nova-Pak Phases

Chemistry	Particle Shape	Particle Size (μ m)	Pore Size (Å)	Carbon Load (%)	Endcapped
Silica	Spherical	4	60	-	-
C8	Spherical	4	60	4	Yes
C18	Spherical	4	60	7	Yes
Phenyl	Spherical	4	60	5	Yes
CN HP	Spherical	4	60	2	Yes

Ordering Information – Analytical Columns

Nova-Pak Phase	Cartridge Column Dimensions ¹ (mm)			Traditional Column Dimensions (mm)				
	150 x 3.9	150 x 4.6	250 x 4.6	150 x 2.1	75 x 3.9	150 x 3.9	300 x 3.9	150 x 4.6
Silica	36980	-	-	52745	11680	10025	-	-
C8	36985	52855	52850	52735	35877	35876	-	-
C18	36975	52845	52840	23655	11670	86344	11695	44375
Phenyl	36970	-	-	52740	11675	10656	-	-
CN HP	44243	44455	44460	-	10270	44245	56920	-

Ordering Information – Analytical Guards

Nova-Pak Phase	Sentry Guard ² (2/pk) 20 x 3.9mm	Guard-Pak ³ Inserts (10/pk)
Silica	46845	20790
C8	46830	35880
C18	44380	15220
Phenyl	46835	20795
CN HP	46840	-

¹ Use with endfittings 37525

² Requires universal Sentry guard holder 46910

³ Use with Guard-Pak holder 88141