



FORCE
SCIENTIFIC
Science Simplified



SAPPHIRUS[®]
Suitability, Strength, Stability,

SAPPHIRUS[®]

HPLC COLUMNS

Strength | Stability | Suitability



Excellent Strength

- Ultra high purity silica with completely spherical, totally porous particle.
- Well controlled narrow particle size distribution.

Outstanding Stability

- High bonding density.
- Minimal silanol activity due to new proprietary end capping technology.

Superior Loadability and Surface Area Accessibility.

- Optimized particle surface area, pore volume, pore volume, pore diameter and its distribution to give good surface morphology.

SAPPHIRUS[®] HPLC PHASE SPECIFICATIONS - 100Å

Phase	Pore Size (Å)	Particle Size (µm)	Surface Area (m ² /g)	Carbon Load (%)	Endcapped	pH Range	Aq Compatible	USP Listing
C18 -Classic	100	3,5,7,10	330	18	Yes	2 to 8	Yes (95%)	L1
C18-HD	100	3,5,10	330	18	Yes	2 to 9	Yes (70%)	L1
C18-Dual	100	3,5,10	330	14	Yes	2 to 8	Yes (100%)	L1
C18-Plus	100	3,5,10	330	19	Yes	2 to 8	Yes	L1
C8-Classic	100	3,5,10	330	10	Yes	2 to 8	Yes	L7
C8-HD	100	3,5,10	330	12	Yes	2 to 9	Yes (70%)	L7
Phenyl-Classic	100	3,5,10	330	12	Yes	2 to 8	Yes	L11
CN-Classic	100	3,5,10	330	7	Yes	2 to 8	Yes	L10
DIOL-Classic	100	3,5,10	330	4	No	2 to 8	Yes	L20
Silica	100	3,5,10	330	N/A	No	2 to 8	No	L3

SAPPHIRUS[®] HPLC PHASE SPECIFICATIONS - 100Å

Phase	Pore Size (Å)	Particle Size (µm)	Surface Area (m ² /g)	Carbon Load (%)	Endcapped	pH Range	Aq Compatible	USP Listing
C18 BDS	145	3,5	185	11	Yes	2 to 8	Yes	L1
C8 BDS	145	3,5	185	7	Yes	2 to 8	Yes	L7
ODS	145	3,5	185	10	Yes	2 to 8	Yes	L1

