

PHASE	USP LISTING	FUNCTIONAL GROUP	ENDCAPPED	PARTICLE SIZE (µm)*	PORE SIZE (Å)	SURFACE AREA (m ² /g)	CARBON LOAD (%)	PH RANGE	100% AQ compatible
ACE® Traditional Chemistries									
C18	L1	Octadecyl	Yes	1.7, 2, 3, 5, 10	100	300	15.5	2 – 8	-
C18-HL	L1	Octadecyl	Yes	3, 5, 10, 15	90	400	20.0	2 – 8	-
C8	L7	Octyl	Yes	2, 3, 5, 10	100	300	9.0	2 – 8	-
C4	L26	Butyl	Yes	2, 3, 5, 10	100	300	5.5	2 – 8	-
Ph	L11	Phenyl	Yes	2, 3, 5, 10	100	300	9.5	2 – 8	-
CN	L10	Cyano	Yes	2, 3, 5, 10	100	300	5.5	2 – 7	-
AQ	L1	Proprietary	Yes	2, 3, 5, 10	100	300	14.0	2 – 8	Yes
SIL	L3	Unbonded	No	2, 3, 5, 10	100	300	N/A	2 – 7	-
ACE NH ₂	L8	Proprietary aminopropyl	Proprietary	1.7, 3, 5	100	300	3.5	2 – 7	Yes
ACE® Novel Chemistries									
SuperC18	L1	Octadecyl encapsulated	Encapsulated	1.7, 2, 3, 5, 10	90	400	14.8	1.5 – 11.5	-
C18-AR	L1	Octadecyl with integral phenyl	Yes	1.7, 2, 3, 5, 10	100	300	15.5	2 – 8	Yes
C18-PFP	L1	Octadecyl with integral PFP	Yes	1.7, 2, 3, 5, 10	100	300	14.3	2 – 8	Yes
C18-Amide	L1 / L60	Polar embedded amide	Yes	1.7, 2, 3, 5, 10	100	300	16.4	2 – 8	Yes
CN-ES	L10	CN with extended alkyl spacer	Yes	1.7, 2, 3, 5, 10	100	300	12.6	2 – 8	Yes
Solid Core Technology ACE® Phases									
UltraCore SuperC18	L1	Octadecyl encapsulated	Encapsulated	2.5 5	95	130 100	7.0 5.4	1.5 – 11.0	-
UltraCore SuperPhenylHexyl	L11	Phenyl Hexyl encapsulated	Encapsulated	2.5 5	95	130 100	4.6 3.6	1.5 – 11.0	-
Large Molecule Wide Pore ACE® Phases									
C18-300	L1	Octadecyl	Yes	3, 5, 10	300	100	9.0	2 – 8	Yes
C8-300	L7	Octyl	Yes	3, 5, 10	300	100	5.0	2 – 8	Yes
C4-300	L26	Butyl	Yes	3, 5, 10	300	100	2.6	2 – 8	Yes
CN-300	L10	Cyano	Yes	3, 5, 10	300	100	2.6	2 – 7	Yes
Ph-300	L11	Phenyl	Yes	3, 5, 10	300	100	5.3	2 – 8	Yes
ACE® HILIC Phases									
ACE HILIC-A	L3	Proprietary SIL	No	1.7, 3, 5	100	300	N/A	2 – 7	-
ACE HILIC-B	L8	Proprietary aminopropyl	No	1.7, 3, 5	100	300	4.0	2 – 7	-
ACE HILIC-N	pending	Proprietary polyhydroxy	No	1.7, 3, 5	100	300	7.0	2 – 7	-
ACE® Method Development Kits (MDKs)									
ACE Advanced MDK	3 column kit	Contains C18, C18-AR, C18-PFP columns	Yes	1.7, 2, 3, 5					Data for these categories are as above for the individual column chemistries
ACE Extended MDK	3 column kit	Contains SuperC18, C18-Amide, CN-ES columns	Yes	1.7, 2, 3, 5					Data for these categories are as above for the individual column chemistries
ACE UltraCore MDK	2 column kit	Contains SuperC18, SuperPhenylHexyl columns	Yes	2.5, 5					Data for these categories are as above for the individual column chemistries
ACE Biomolecule MDK	3 column kit	Contains C18-300, C4-300, Ph-300 columns	Yes	3, 5					Data for these categories are as above for the individual column chemistries
ACE HILIC MDK	3 column kit	Contains HILIC-A, HILIC-B, HILIC-N columns	No	1.7, 3, 5					Data for these categories are as above for the individual column chemistries



ACE Part Numbers

C18

10um: ACE-131-X
 5um: ACE-121-X
 5um: EXL-121-X
 3um: ACE-111-X
 3um: EXL-111-X
 2um: EXL-101-X
 1.7um: EXL-171-X

C8

10um: ACE-132-X
 5um: ACE-122-X
 5um: EXL-122-X
 3um: ACE-112-X
 3um: EXL-112-X
 2um: EXL-102-X

C4

10um: ACE-133-X
 5um: ACE-123-X
 5um: EXL-123-X
 3um: ACE-113-X
 3um: EXL-113-X
 2um: EXL-103-X

CN

10um: ACE-134-X
 5um: ACE-124-X
 5um: EXL-124-X
 3um: ACE-114-X
 3um: EXL-114-X
 2um: EXL-104-X

Phenyl

10um: ACE-135-X
 5um: ACE-125-X
 5um: EXL-125-X
 3um: ACE-115-X
 3um: EXL-115-X
 2um: EXL-105-X

AQ

10um: ACE-136-X
 5um: ACE-126-X
 5um: EXL-126-X
 3um: ACE-116-X
 3um: EXL-116-X
 2um: EXL-106-X

SIL

10um: ACE-137-X
 5um: ACE-127-X
 5um: EXL-127-X
 3um: ACE-117-X
 3um: EXL-117-X
 2um: EXL-107-X

C18-HL

15um: ACE-341-X
 10um: ACE-331-X
 5um: ACE-321-X
 5um: EXL-321-X
 3um: ACE-311-X
 3um: EXL-311-X

C18-300

10um: ACE-231-X
 5um: ACE-221-X
 3um: ACE-211-X

C8-300

10um: ACE-232-X
 5um: ACE-222-X
 3um: ACE-212-X

C4-300

10um: ACE-233-X
 5um: ACE-223-X
 3um: ACE-213-X

CN-300

10um: ACE-234-X
 5um: ACE-224-X
 3um: ACE-214-X

Phenyl-300

10um: ACE-235-X
 5um: ACE-225-X
 3um: ACE-215-X

C18-AR

10um: ACE-139-X
 5um: ACE-129-X
 5um: EXL-129-X
 3um: ACE-119-X
 3um: EXL-119-X
 2um: EXL-109-X
 1.7um: EXL-179-X

C18-PFP

10um: ACE-1310-X
 5um: ACE-1210-X
 5um: EXL-1210-X
 3um: ACE-1110-X
 3um: EXL-1110-X
 2um: EXL-1010-X
 1.7um: EXL-1710-X

SuperC18

10um: ACE-1311-X
 5um: ACE-1211-X
 5um: EXL-1211-X
 3um: ACE-1111-X
 3um: EXL-1111-X
 2um: ACE-1011-X
 2um: EXL-1011-X
 1.7um: EXL-1711-X

C18-Amide

10um: ACE-1312-X
 5um: ACE-1212-X
 5um: EXL-1212-X
 3um: ACE-1112-X
 3um: EXL-1112-X
 2um: EXL-1012-X
 2um: ACE-1012-X
 1.7um: EXL-1712-X

CN-ES

10um: ACE-1313-X
 5um: ACE-1213-X
 5um: EXL-1213-X
 3um: ACE-1113-X
 3um: EXL-1113-X
 2um: ACE-1013-X
 2um: EXL-1013-X
 1.7um: EXL-1713-X

NH₂

5um: ACE-1214-X
 5um: EXL-1214-X
 3um: ACE-1114-X
 3um: EXL-1114-X
 1.7um: EXL-1714-X

UltraCore SuperC18

5um: CORE-5A-X
 2.5um: CORE-25A-X

UltraCore SuperPhHex

5um: CORE-5B-X
 2.5um: CORE-25B-X

HILIC-A

5um: HILA-5-X
 3um: HILA-3-X
 1.7um: HILA-17-X

HILIC-B

5um: HILB-5-X
 3um: HILB-3-X
 1.7um: HILB-17-X

HILIC-N

5um: HILN-5-X
 3um: HILN-3-X
 1.7um: HILN-17-X

Where X = column length & column id.
 E.g. 150 x 4.6mm id X = 1546 for ACE
 and X = 1546U for EXL

Id (mm)	Code
0.5	005
1.0	01
2.1	02
3.0	03
4.0	04
4.6	46
7.75	08
10	10
21.2	21
30	30

MDKs

MDKA-Z-Y
 MDKE-Z-Y
 MDKU-Z-Y
 MDKB-Z-Y
 MDKH-Z-Y
 MDKCS-Z-Y

where Z=Particle size Y= column size
 eg MDKE-17-0502 = 1.7um, 50x2.1
 eg MDKU-5-1546 = 5um, 150x4.6