

SVEA™

SWEDISH EXCELLENCE IN NANOPOROUS SILICA
(U)HPLC Columns

SVEA™ C18 Opal

SVEA™ C18 Gold is made of fully porous Type B Silica with an octadecylsilane bonded phase. SVEA™ C18 Opal is coated with a proprietary bonding technology, which provides a fully covered silica surface. The column material is protected against hydrolysis of the ligands at low pH and silica dissolution at high pH. The coating results in only hydrophobic interactions, resulting in excellent peak shape for all types of analytes. The proprietary bonding technology binds the ligands strongly, providing exceptionally low bleeding.

TYPICAL VALUES

Property	Method of Analysis	Value	Unit
Available particle size	Coulter counter (Elzone)	5, 3.5	µm
Particle size distribution d90/d10	Coulter counter (Elzone)	See table below	N/A
Pore volume	Nitrogen adsorption (BET)	0.85	ml/g
Surface area	Nitrogen adsorption (BET)	300	m ² /g
Pore size	Nitrogen adsorption (BET)	110	Å
Carbon load	SS-EN 15407:2011	14	%
Ligand density	Calculated	3.7	µmol/m ²

Particle size (µm)	Particle size distribution
5	≤ 1.5
3.5	≤ 1.5

ADDITIONAL INFORMATION

Storage: Flush out all buffers from the columns and store the column in an organic solvent mixture (e.g. 70/30 acetonitrile/water). Ensure that the end-fittings of the column are properly sealed to avoid drying of the column bed. Store at the ambient temperature.

