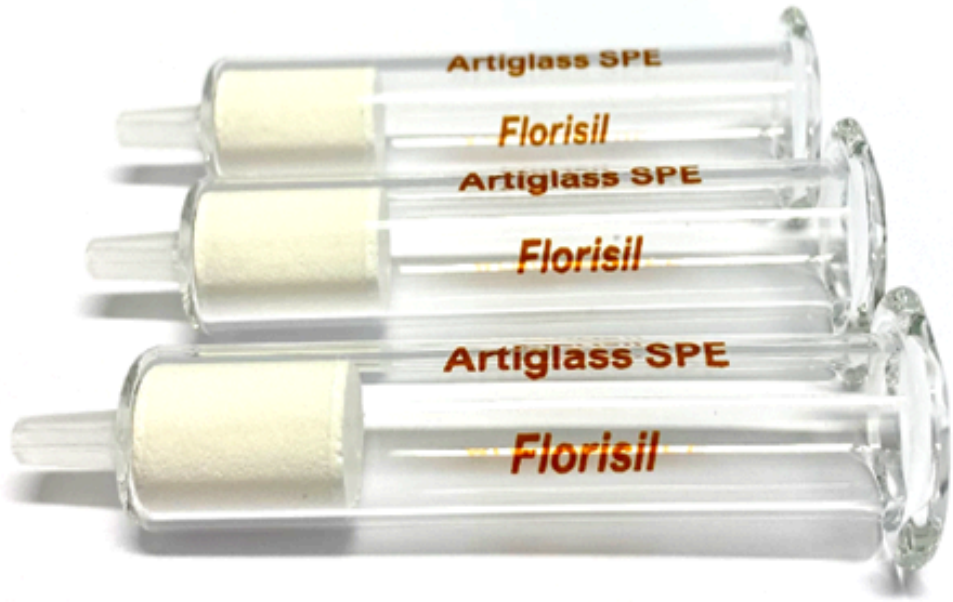
SPE COLUMNS FOR CHROMATOGRAPHY



Artiglass SPE columns are designed to meet the purification needs of the analytical market. Artiglass manufactures in-house high-quality, ultra-clean glass cartridges—also used in the medical sector. These cartridges are then filled with premium-grade basic Silica and PR Florisil, resulting in an ideal product for chemical sample purification and analysis.

SPE (Solid Phase Extraction) is a technique developed in the late 1970s and is currently the most effective method available for the rapid and selective preparation of samples prior to analytical chromatography.
SPE allows for concentration and purification of the sample before instrumental analysis by using polar and non-polar adsorbents with analytes of varying polarity.

In addition to standard formats, we offer the option of creating an OEM product according to the client's specifications, ensuring the use of ultra-pure materials for an optimal analysis product.

TECHNICAL FEATURES



ULTRA CLEAN – HIGH PURITY
The columns do not release unwanted substances.



QUALITY CONTROL
Every batch is inspected to ensure a safe product with long-term resistance.



CUSTOMIZATION WITH LOGO AND GRADUATION
Available upon request.



PRE-ACTIVATED FLORISIL® PHASE – READY TO USE
Each batch is tested in our quality control laboratories.

FRIT



PROTECTIVE PACKAGING
The packaging guarantees maximum protection against moisture and light.

SPE C18_17%C

- Purification column used for pesticide analysis
- End-capped phase for enhanced retention efficiency of compounds
- Non-polar phase for retention of low-polarity compounds
- Pre-activated and ready to use

SPE C18_17%C- GLASS SPE

MODELS	Code	Volume	Bed Mass	Description	Box
	C18_100mg/3ml GL	3mL	100mg	Carbon Load 17%, 40µm, 60Å	30
	C18_250mg/3ml GL	3mL	250mg	Carbon Load 17%, 40µm, 60Å	30
	C18_250mg/6ml GL	6mL	250mg	Carbon Load 17%, 40µm, 60Å	30
	C18_500mg/6ml GL	6mL	500mg	Carbon Load 17%, 40µm, 60Å	30
	C18_1g/6ml GL	6mL	1g	Carbon Load 17%, 40µm, 60Å	30

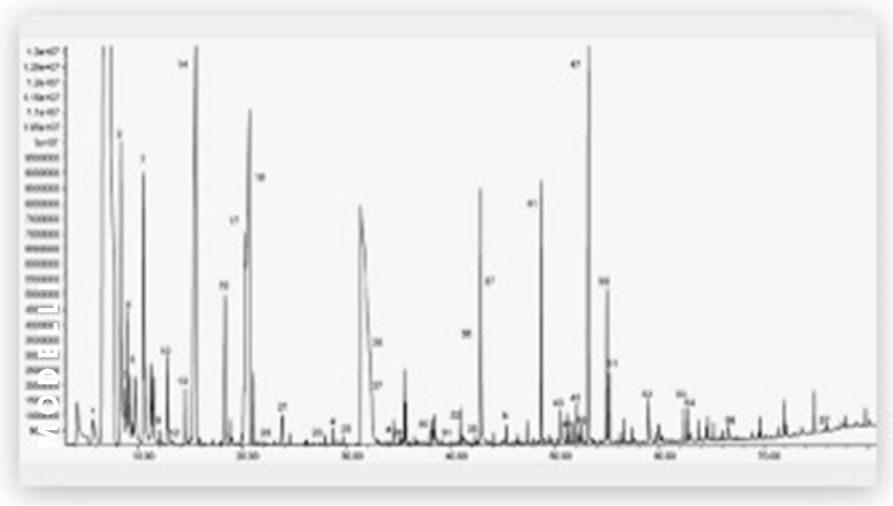


Fig. 1 Multiresidue analysis by GC7MS after SPE C18 extraction of Artiglass

SPE FLORISIL®

- Purification column used for the analysis of hydrocarbons and PCBs
- Polar phase for the retention of polar compounds
- Specific for non-polar analytes that elute easily
- Pre-activated and ready to use
- Used for the following methods EPA 3620B - UNI EN 14039:2005 - ISO 16703:2004

FLORISIL® - GLASS SPE

MODELS

Code	Volume	Bed Mass	Description	Box
FL_500mg/3ml GL	3mL	500mg	150-250 µm, (60-100 mesh) 60Å	50
FL_500mg/6ml GL	6mL	500mg	150-250 µm, (60-100 mesh) 60Å	30
FL_1g/6ml GL	6mL	1g	150-250 µm, (60-100 mesh) 60Å	30
FL_2g/6ml GL	6mL	2g	150-250 µm, (60-100 mesh) 60Å	30
FL_2g/10ml GL	10mL	2g	150-250 µm, (60-100 mesh) 60Å	30
FL_2g/20ml GL	20mL	2g	150-250 µm, (60-100 mesh) 60Å	30
FL_5g/20ml GL	20mL	5g	150-250 µm, (60-100 mesh) 60Å	30

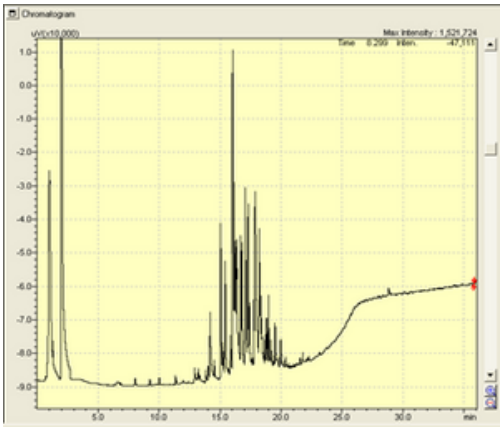


Fig. 2 Analysis of Arochlor from transformer oil by GC/ECD after extraction and purification with Artiglass Florisil SPE columns.

SPE FLORISIL® NA2SO4

- Purification column used for hydrocarbon analysis, particularly during liquid-liquid extractions
- Florisil combined with activated sodium sulfate (Na_2SO_4) to ensure maximum efficiency in retaining small amounts of water that could deactivate the Florisil
- Polar phase for retention of polar compounds
- Specific for non-polar analytes that elute easily
- Pre-activated and ready to use
- Used for the following methods: UNI EN ISO 9377-2:2002 - UNI EN 14039:2005 - UNI EN ISO 16703:2011

SPE FLORISIL® NA2SO4 - GLASS SPE

MODELS	Code	Volume	Bed Mass	Description	Box
	FL/SO4_1g/ 1g_6ml GL	6mL	1g/1g	150–250 µm (60–100 mesh), 60 Å / Na_2SO_4	30
	FL/SO4_2g/ 2g_6ml GL	6mL	2g/2g	150–250 µm (60–100 mesh), 60 Å / Na_2SO_4	30
	FL/SO4_1g/ 1g_10ml GL	10mL	1g/1g	150–250 µm (60–100 mesh), 60 Å / Na_2SO_4	30
	FL/SO4_2g/ 2g_10ml GL	10mL	2g/2g	150–250 µm (60–100 mesh), 60 Å / Na_2SO_4	30
	FL/SO4_2g/ 2g_20ml GL	20mL	2g/2g	150–250 µm (60–100 mesh), 60 Å / Na_2SO_4	30

SPE SILVER-IMPREGNATED SILICA 10%

- Purification column used for the analysis of PAHs and Dioxins
- Polar phase with mildly acidic properties for retaining polar compounds
- Combined with 10% silver nitrate ($AgNO_3$) to trap interferences that plain silica would struggle to retain (e.g., sulfur-containing substances from soil or sludge extracts)
- Pre-activated and ready to use

SPE SILVER-IMPREGNATED SILICA 10% – GLASS SPE

MODELS

Code	Volume	Bed Mass	Description	Box
Si/Ag_500mg/3ml GL	3mL	500mg	40–63 µm (230–400 mesh), 60 Å irregular, Silver Nitrate	30
Si/Ag_1g/6ml GL	6mL	1g	40–63 µm (230–400 mesh), 60 Å irregular, Silver Nitrate	30
Si/Ag_2g/6ml GL	6mL	2g	40–63 µm (230–400 mesh), 60 Å irregular, Silver Nitrate	30
Si/Ag_2g/10ml GL	10mL	2g	40–63 µm (230–400 mesh), 60 Å irregular, Silver Nitrate	30
Si/Ag_5g/20ml GL	20mL	2g	40–63 µm (230–400 mesh), 60 Å irregular, Silver Nitrate	30

SPE ACIDIC SILICA

- Purification column combined with sulfuric acid, used to enhance the efficiency of silica in purifying complex extracts that contain lipids and significant quantities of polar compounds, such as humic acids
- Specific for non-polar analytes that elute easily
- Used in the purification of extracts for dioxin analysis
- Pre-activated and ready to use

ACIDIC SILICA – GLASS SPE

MODELS

Code	Volume	Bed Mass	Description	Box
Si/H+_500mg/ 6ml GL	6mL	500mg	40–63 µm (230–400 mesh)/ 60 Å irregular ultrapure sulfuric acid	30
Si/H+_1g/ 6ml GL	6mL	1g	40–63 µm (230–400 mesh)/ 60 Å irregular ultrapure sulfuric acid	30
Si/H+_2g/ 6ml GL	6mL	2g	40–63 µm (230–400 mesh)/ 60 Å irregular ultrapure sulfuric acid	30
Si/H+_2g/ 10ml GL	10mL	2g	40–63 µm (230–400 mesh)/ 60 Å irregular ultrapure sulfuric acid	30
Si/H+_5g/ 20ml GL	20mL	5g	40–63 µm (230–400 mesh)/ 60 Å irregular ultrapure sulfuric acid	30

SPE SILICA

- Purification column used for the analysis of PAHs (Polycyclic Aromatic Hydrocarbons)
- Polar phase with mildly acidic properties for the retention of polar compounds
- Pre-activated and ready to use
- Used according to EPA Method 3630C

SILICA – GLASS SPE

MODELS

Code	Volume	Bed Mass	Description	Box
Si_500mg/6ml GL	6mL	500mg	40–63 µm (230–400 mesh)/ 60 Å irregular	30
Si_1g/6ml GL	6mL	1g	40–63 µm (230–400 mesh)/ 60 Å irregular	30
Si_2g/6ml GL	6mL	2g	40–63 µm (230–400 mesh)/ 60 Å irregular	30
Si_2g/10ml GL	10mL	2g	40–63 µm (230–400 mesh)/ 60 Å irregular	30
Si_5g/20ml GL	20ml	5g	40–63 µm (230–400 mesh)/ 60 Å irregular	30

CERTIFICATIONS

Artiglass operates under a quality management system compliant with UNI EN ISO 9001:2015 standards.





Artiglass places the customer at the heart of its product development activities and allocates adequate resources to continuously improve all processes and products in the Production Area, focusing on meeting customer needs and expectations.
Our goal is to create an organization that is highly focused on its customers, continually improving the effectiveness of our system to meet customer needs.

Artiglass products are the result of a rigorous process that prioritizes quality at every stage. The quality of the raw materials is essential to ensure the maximum purity and safety of the finished product. Our production process employs the most advanced technologies, and every stage is managed carefully and precisely by experienced personnel. We conduct thorough checks at every stage to ensure compliance with our established standards. The quality of our products is further validated by the certifications we have obtained, which confirm their safety and reliability.



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