

Sample Plates and Seals

SAMPLE PLATES

We offer a selection of 96- and 384-well sample plates for use in autosamplers. The plates are SBS/ANSI compliant, for robot compatible systems. The 96-well plates can also serve as collection plates for 96-well SPE and filtration-plate formats. All of our plates are made of polypropylene, for chemical resistance. We also offer 96-well plates fitted with glass inserts that maintain sample in contact only with a glass surface. The glass inserts are also available in deactivated glass format. Refer to the vials section for information about glass and deactivated glass.

The sample plates can be centrifuged to the following maximum centrifugal forces. Exceeding this limit can deform the plates. A deformed plate can cause autosampler error and instrument shutdown.



Ordering Information

96-well Plates

Description	Maximum Centrifugal Force	P/N
96-well Plate, 350 μ L per well	5000 g	186002643
96-well Plate, 700 μ L per well	2000 g	186005837
96-well Plate, 800 μ L per well	2000 g	186002481
96-well Plate, 2 mL per well	5000 g	186002482
384-well Plate, 100 μ L per well	5000 g	186002631
384-well Plate, 250 μ L per well	5000 g	186002632

SEALS

Waters offers a selection of cap mats, heat seals, and an adhesive seal for plates.

Polypropylene Cap Mats

The selection of polypropylene cap mats fit all 96-well plates and offer the chemical resistance of polypropylene.

Silicone/PTFE Cap Mats

Silicone/PTFE cap mats, manufactured in slit and non-slit versions, are available for 96-well plates, including those fitted with glass inserts. We recommend using the slit versions in autosamplers, where they promote proper venting, and accuracy of sample draw. We recommend the non-slit versions for long-term sample storage.

Clear Polyester Heat Seal

The clear polyester seal, usable between -80°C and 80°C , is effective for most sample solvents and buffers, including DMSO. To use the seal, place its shiny side facing up, and then use a heat sealer to apply heat in both directions for two to three seconds.



Aluminum Foil Heat Seal

The aluminum foil heat seal is a polyester/aluminum laminate. The addition of the aluminum layer reduces the gas permeability of the seal. For long-term storage, the aluminum foil heat seal is a better choice for reducing evaporative loss. The seal is usable over the temperature range from -200°C to 90°C . Position the seal with its white side facing up, and then apply heat, in both directions for three seconds, using a heat sealer.

Adhesive Seal

The adhesive seal is a polyolefin film with a synthetic rubber adhesive. This seal is ideal for protein and peptide analyses, where samples are in buffers. The adhesive, which is usable between -80°C and 80°C , is resistant to low concentrations (0–30%) of polar organic solvents. No heat sealing equipment is needed to apply the seal.