TOTAL AND VOLATIL SUSPENDED SOLIDS

EPA approved **ProWeigh**® Filters provide improved productivity and accurate results.

Laboratories have been using **ProWeigh** Filters since 1990 to reduce labor costs, improve accuracy and provide quicker reporting times. These pre-weighed filters from Environmental Express are a convenient and accurate way to perform Total and Volatile Suspended Solids.

ProWeighs are ready-to-use filters for TSS and VSS that eliminate all hands-on filter preparation. All preparation steps including filter washing, drying, desiccating and weighing are already done for you. With ProWeighs, all you have to do is filter your sample, dry it and take the final weight.

Preparation Is Done For You

All **ProWeigh** filters are prepared according to Standard Methods requirements. These 1.5µm porosity borosilicate glass fiber filters are vacuum rinsed three times with 20mL aliquots of reagent-grade water to remove loose fibers, then dried at 105°C, cooled and desiccated for 24 hours.

Filters are Pre-Weighed and Ready To Use

After preparation, **ProWeigh** filters are robotically weighed to the nearest 0.1mg. After weighing, each filter is transferred to an aluminum dish conveniently labeled with the final filter weight and a filter ID number. The dishes are stacked in sleeves of 25 and packaged in hundred count boxes.

Quality Control Ensures Accuracy and Filter Integrity

Filters are weighed on electronic analytical balances that are calibrated hourly and routinely certified by a registered third party. Calibration is further verified by ASTM Class 1 weights. A copy of the balance certification is included in each box of **ProWeigh** filters. Robotically weighed filters are check-weighed prior to shipment for weight, accuracy and stability. 47mm filters must maintain a weight reproducibility of ± 0.3 mg, a tighter tolerance than the ± 0.5 mg required by Standard Methods. Filters are visually inspected at the cutting, washing and drying steps to ensure the absence of holes or debris.

Labeling Includes Barcoding

Each **ProWeigh** filter is supplied in an aluminum pan that has the weight of the filter and a filter ID number printed on it. Data is presented in print as well as in 128



Additional Filter Styles and Sizes are available to meet the needs of Your laboratory.

ProWeigh Filters for Volatile Solids

ProWeigh filters are also available for performing fixed or volatile solids. After the vacuum rinsing and drying steps, these ProWeighs are heated to 550°C in a muffle furnace to drive off any volatile materials. Next, they are desiccated, weighed to 0.1mg and quality checked for accuracy. Filters for volatile determinations are tested for weight stability at 550°C

DoubleWeigh Filters

DoubleWeigh filters are taken one step further to guarantee their weight stability. These filters are redried and reweighed to ensure an accurate weight. All filters are available in a variety of sizes to meet the needs of your laboratory.

See the opposite side of this sheet for a list of our most popular preweighed filter styles and sizes.



www.tecdevexpress.com

TOTAL AND VOLATIL SUSPENDED SOLIDS

Pre-weighed Filters for Total and Volatile Suspended Solids Testing.

A variety of ProWeigh® styles and sizes are available to meet the needs of your laboratory.

To request additional informations or special Evaluation kit , call us at +41 (0)24 435 22 02 with your specifications.

Standard Methods Approved (Since 1997) For:						
Parameter	EPA Method	Standard Method				
Total Dissolved Solids	160.1	2540C				
Total Suspended Solids	160.2	2540D				
Volatile Suspended Solids	160.4	2540E				
Total Dissolved Solids	160.1	2540C				
Total Suspended Solids	160.2	2540D				
Volatile Suspended Solids	160.4	2540E				

Style	Catalog Number	Size	Reproducibility	Accuracy		
ProWeigh	F93447MM	47mm	± 0.2mg	±	0.4mg	max
DoubleWeigh	F93447MM-X	47mm	± 0.2mg	±	0.4mg	max
ProWeigh for Volatiles	F93447VOL	47mm	± 0.2mg	±	0.4mg	max
ProWeigh	F93442MM	42mm	± 0.2mg	±	0.4mg	max
ProWeigh	F93455MM	55mm	± 0.2mg	±	0.4mg	max
ProWeigh	F93455VOL	55mm	± 0.2mg	±	0.4mg	max
ProWeigh	F93476MM	76mm	± 0.2mg	±	0.4mg	max
DoubleWeigh	F93476MM-X	76mm	± 0.2mg	±	0.4mg	max
ProWeigh for Volatiles	F93476VOL	76mm	± 0.2mg	±	0.4mg	max
ProWeigh	F93490MM	90mm	± 0.2mg	±	0.4mg	max
DoubleWeigh	F93490MM-X	90mm	± 0.2mg	±	0.4mg	max
ProWeigh for Volatiles	F93490VOL	90mm	± 0.2mg	±	0.4mg	max
ProWeigh	F934110MM	110mm	± 0.2mg	±	0.4mg	max
ProWeigh for Volatiles	F934110VOL	110mm	± 0.2mg	±	0.4mg	max
ProWeigh PES Filters, 0.45µm	F96047PES	47mm	± 0.2mg	±	0.4mg	max



Each ProWeigh filter is washed, under vacuum, three times with 20mL aliquots of deionized water.

TecDev Le Villaret



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Filter drying in horizontal flow mechanical ovens insures uniform drying with no dead spots.

CH 1432 Belmont s/Yverdon / Switzerland

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Fax: +41(0)24 435 22 03 Email: tecdev@hispeed.ch



Cooling in a desiccator provides moisture-free, stable filter weights.



All ProWeigh filters are weighed on certified electronic analytical balances.