

Turf-Tec Acrylic Sieve Set



These inexpensive sieves are excellent for determining the particle size of sand. It is ideal for spot checking topdressing sands.

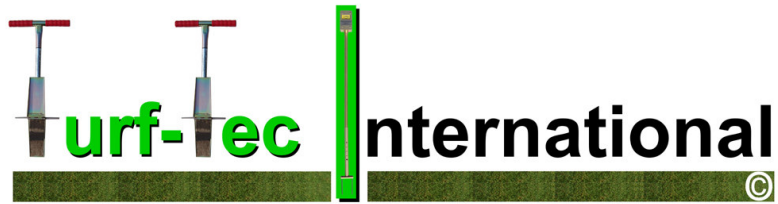
The Acrylic Sieve Set comes with four cylinders that can be set up with any of the below diameter mesh screens.

The sieves placed in sequential order of largest to smallest will allow a complete particle size breakdown.

DIMENSIONS & SPECIFICATIONS

Four clear acrylic cylinders	Sieves fit into each other to form a stack
Stainless steel mesh and borders	Sieve cover and pan are included
Set of sieves are 2" Inches in diameter	Frame is made of ABS plastic
Height of 1 3/4" Inches each	Frame is 4" outside diameter
Overall height is 14 1/2"	20 Screens with below specifications

USGA Classification	US Standard Number	Millimeter Size	Mesh Opening in Inches	Markings on sieve
	4	4.75 MM	.1870	187 OPN
	6	3.35 MM	.1320	132 OPN
	8	2.36 MM	.0900	90 OPN
Very Course	10	2.00 MM	.0720	72 OPN
	12	1.70 MM	.0600	60 OPN
	14	1.40 MM	.0510	51 OPN
	16	1.18 MM	.0460	46 OPN
Coarse	18	1.00 MM	.0400	40 OPN
	20	.850 MM	.0300	30 OPN
	25	.710 MM	.0260	26 OPN
	30	.600 MM	.0230	23 OPN
Medium	35	.500 MM	.0200	20 OPN
	40	.425 MM	.0150	15 OPN
Fine	60	.250 MM	.0090	09 OPN
Very Fine	100	.150 MM	.0055	055 OPN
	120	.125 MM	.0046	046 OPN
	140	.106 MM	.0041	041 OPN
	200	.075 MM	.0029	029 OPN
	230	.063 MM	.0024	024 OPN
	270	.05 MM	.0021	021 OPN

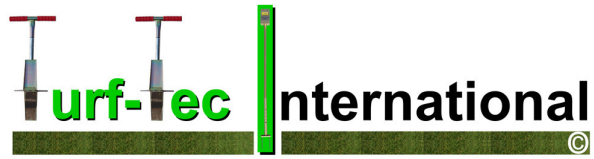


Acrylic Sieve Set Instructions

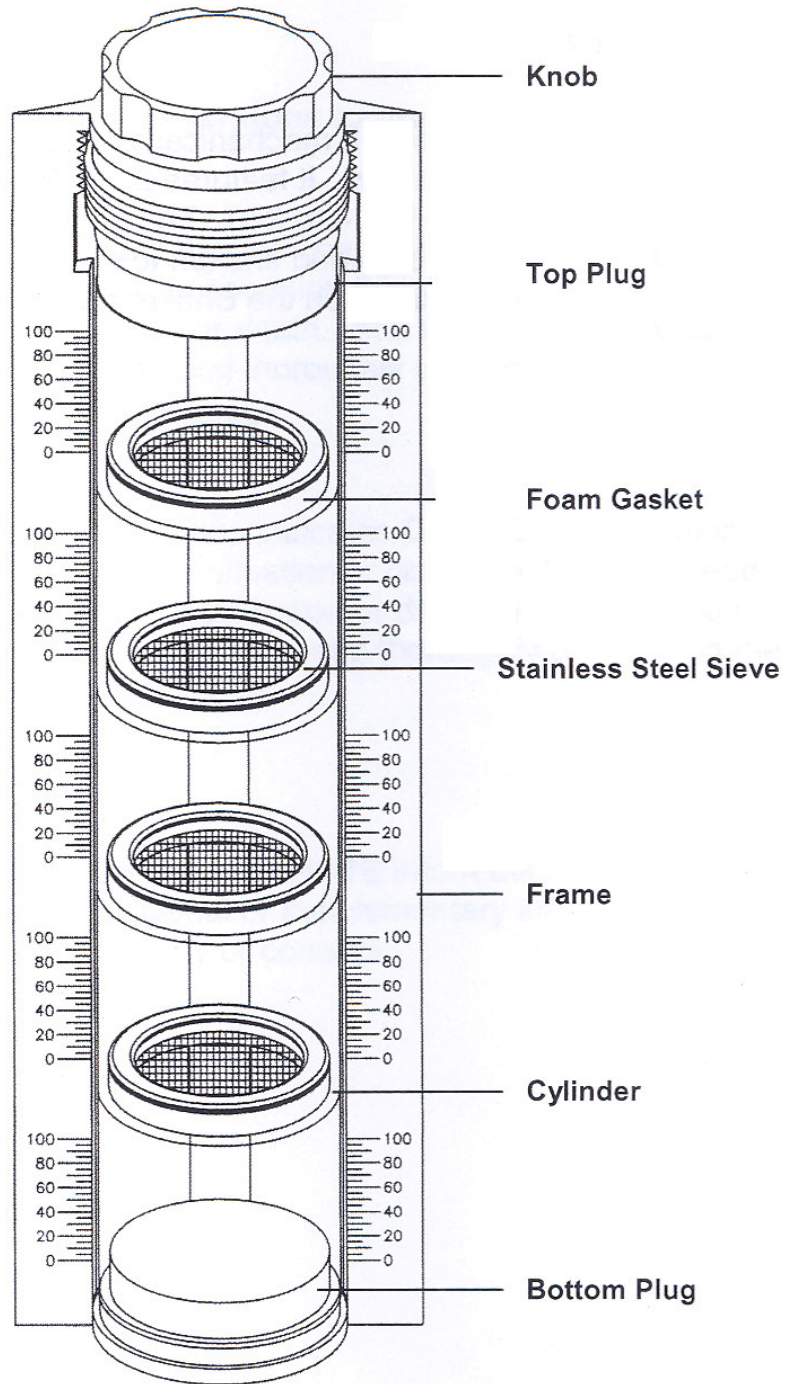
1. Dry the soil sample (The easiest way to dry, wet soil is to place spread out newspaper in the sun).
2. Press the selected sieves into the recess of the cylinders; the flat side of the sieve should be pressed against the flat face of the cylinder (the sieve has been constructed to fit tightly within the cylinder). Apply pressure to the metal edge when inserting or removing the pieces.
3. Insert the foam gasket ring which compensates for the variable thickness of the sieves.
4. Stack the cylinders; the plug is the bottom pan and the cap is the top of the assembly.
5. Measure the amount of soil to be sieved.
6. Remove the top and pour the measured sample into the upper cylinder.
7. Replace the top and insert the stack of cylinders into the frame.
8. Turn the knob to secure the stack of cylinders within the frame.
9. Check to ensure that the top of each sieve corresponds to the "zero" graduation.
10. Shake the unit to distribute the different sized particles.
11. Read the percentages of each of the quantities retained by the various sieves and the bottom pan (if the amount to be sieved corresponds to the volume on the graduated scale, the size distribution can be read as a percent of the total sample: volume = 100ml = 100 percent).

PARTICLE SIZE DISTRIBUTION OF USGA ROOT ZONE MIX

Name	Particle Diameter	Recommendation (by weight)
Fine Gravel	2.0 - 3.4 mm	
Very coarse sand	1.0 - 2.0 mm	Not more than 10% of the total particles in this range, including a maximum of 3% fine gravel (preferably none)
Coarse sand	0.5 - 1.0 mm	Minimum of 60% of the particles must fall in this range
Medium sand	0.25 - 0.50 mm	
Fine sand	0.15 - 0.25 mm	Not more than 20% of the particles may fall within this range
Very Fine Sand	0.05 - 0.15 mm	Not more than 5%
Silt	0.002 - 0.05 mm	Not more than 5%
Clay	less than 0.002 mm	Not more than 3%
Total Fines	Very fine sand + silt + clay	Less than or equal to 10%



Turf-Tec Acrylic Sieve Set Parts

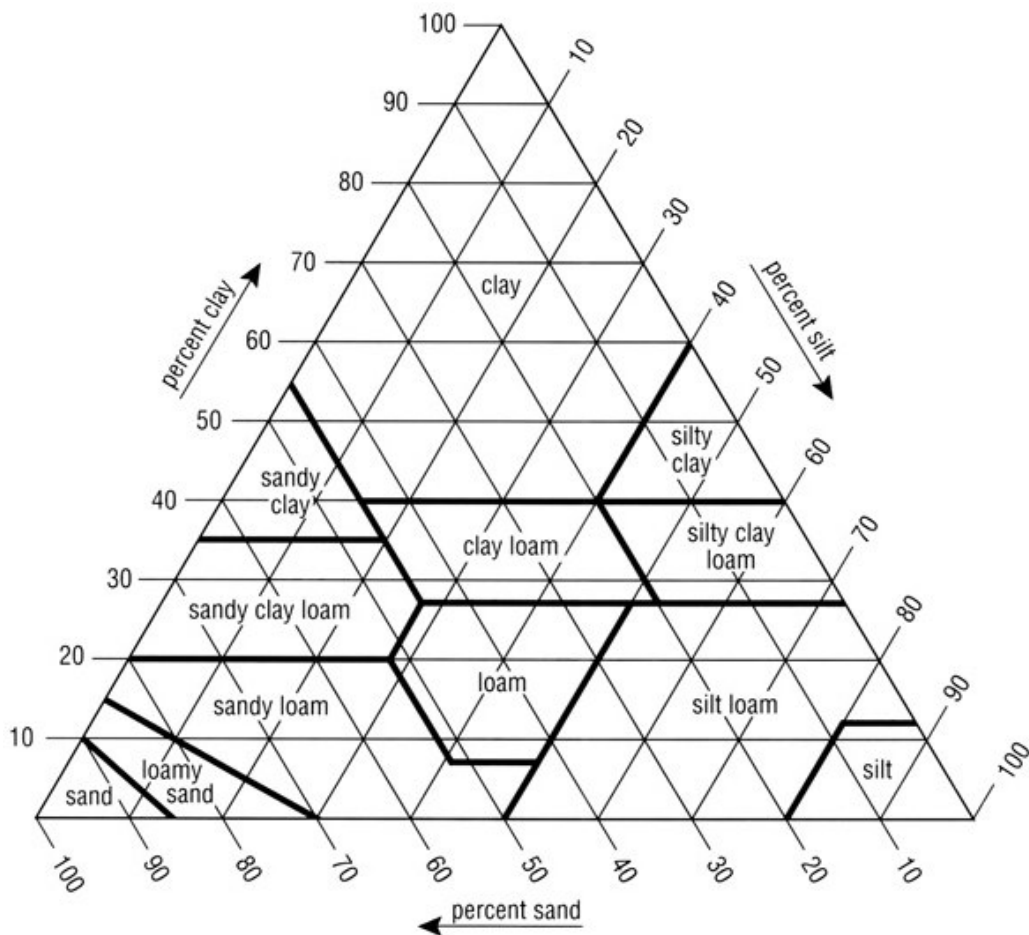


Recommended Reading:

USGA Recommendations for a Method of Putting Green Construction

http://www.usga.org/uploadedFiles/USGAHome/course_care/articles/construction/greens/USGA_Recommendations_For_a_Method_of_Putting_Green_Construction.pdf

Soil Classification



**Guide for Textural Classification of Soil
(U.S. Department of Agriculture Soil Conservation Service)**