



# MARSH FUNNEL VISCOMETER

MEASURES FLUID VISCOSITY

MATRIX® CERTIFIED  
TESTING EQUIPMENT

PRODUCT DATA SHEET

The Marsh Funnel Viscometer is an easy to operate instrument that is used for making quick, on-the-spot measurements of slurry viscosity. Viscosity is the resistance to flow and the measurement taken is affected significantly by the rate of gelation and by the density of the slurry. The readings will alert the user to changes in the slurry viscosity that could require corrective action.

The Marsh Funnel Viscometer and measuring cup are made of strong break-resistant plastic. The measuring cup is marked in cubic centimeters and fluid ounces. It has been designed specifically for use with the

Marsh Funnel. Funnel Viscosity is the ratio of the speed of the sample fluid as it passes through the outlet tube (the shear rate) to the amount of force (the weight of the fluid) that is causing the fluid to flow (the shear stress). Marsh Funnel Viscosity is reported as the number of seconds required for one quart of sample fluid to flow out of a full Marsh Funnel.



## PROCEDURE

1. Make sure that the Marsh Funnel is clean and dry before it is filled with a fresh slurry sample.
2. Hold the funnel erect with a finger over the outlet tube, pour the slurry into the funnel through the screen until the slurry level reaches the line marking 1,500 ml below the bottom of the screen. The screen will filter out the larger particles that could clog the outlet tube.
3. Hold funnel over empty measuring cup.
4. Quickly remove the finger from the outlet tube, and at the same time, begin timing the slurry outflow.
5. Allow one quart (946 cc) of slurry to flow from the Marsh Funnel into the graduated container (measuring cup).
6. Record the number of seconds it takes for one quart of slurry to flow out of the funnel, and report this value as the Marsh Funnel Viscosity.

## AVAILABILITY

The Marsh Funnel & Cup Viscometer can be purchased through any MATRIX Construction Products Representative. Orders@matrixcp.com



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PDS UPDATED JANUARY 2024

