#### **USE CODE Y293 FOR MAX. DISCOUNT**





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- Wash, clean and dry the pycnometer and note down its mass (M1) along with brass cap and washer
- Now place a sample of wet soil in pycnometer and note down its mass (M2).
- Then add water to the soil in the pycnometer to make it about half full.
- Stir the soil using glass rod to remove air voids of the soil sample. If available connect the vacuum pump to the soil specimen to remove entrapped air.
- Add some more water and after eliminating the entrapped air stop stirring and fix the brass cap. More water is added through hole in brass cap until the water is flush with the hole.
- Now take the mass of pycnometer (M3).
- Now empty and wash the pycnometer. Then fill it with only water and take its mass (M4).

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$$w = \left[\frac{M_2 - M_1}{M_3 - M_4} \left(\frac{G - 1}{G}\right) - 1\right] \times 100$$

This method is suitable coarse grain soil

$$W\% = \left[\frac{\omega_2 - \omega_1}{\omega_3 - \omega_4}\right] \left(\frac{4}{4}\right) - 1 \times 100$$



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