

Gardco Standard Ford Dip Cup

With Orifices #3, #4 & #5

This cup has the same capacity as the Standard Laboratory type Ford Viscosity Cup designed for use with a stand. However, this new cup is fitted with a red anodized aluminum handle and the drip ring at the top of the cup has been eliminated.

- **Compatible with ASTM D1200**
- For use in field or laboratory
- Red Anodized handle for easy identification
- $\pm 3\%$ Production Tolerance for cup #3, $\pm 2\%$ Production Tolerance for cup #4, $\pm 3\%$ Production Tolerance for cup #5
- All Gardco Ford cups are alodine finished machined aluminum with removable brass orifice
- Orifice included
- Cup #3 range extends from 29 to 251 centistokes, Cup #4 range extends from 34 to 441 centistokes, Cup #5 range extends from 77 to 1413 centistokes
- Seconds to centistokes conversion table furnished with every cup
- Calibration traceable to the U.S. National Institute of Standards and Technology
- **Calibration Certification qualifies under ANSI/NCSL Z540 or ISO/IEC 17025, ISO 9001 as applicable**
- Conforms to ISO 9000 when ordered with option
- Certificate of calibration
- Mathematical formulas developed for the Gardco Standard #3, #4 & #5 Ford Dip Viscosity Cups, relating efflux time in seconds to viscosity in centistokes, defines cup flow characteristics with respect to standard oils traceable to U.S. National Institute of Standards and Technology. The resulting formulas have been solved for each tenth of a second within the recommended range. A table with this information as well as the cup formula is furnished free with each cup
- Standard oils, traceable to the U.S. National Institute of Standards and Technology are available for verification of cup calibration



Caution: Silicone fluids should not be used to calibrate viscosity cups. These materials change the interface between the cup surface and the test material and therefore change the cup calibration. The following is taken from ASTM D445: Viscometers used for silicone fluids should be reserved for the exclusive use of such fluids. Solvent washing from these viscometers should not be used for cleaning other viscometers.



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Specification Table

Ford Dip Cup Number	Standard Oil	Approximate Centistoke Value	Efflux Time In Secs.
3	G60	120	56
4	G60	120	35
5	G200	450	39

To find the exact efflux time in seconds, substitute the centistoke value of the oil from the bottle label in the conversion table furnished with the cup. Read from the table the applicable efflux time in seconds or use the formula on the reverse side of the table.

TECHNICAL INFORMATION

The Gardco Standard Ford Dip Cup has all the advantages listed for the Standard series except it does not have a overflow well at the top of the cup and a red anodized handle is attached for support.

The bottom of the cup is designed to extend below the orifice This design not only provides adequate stability for the cup when resting upright on a surface, but also protects the orifice from damage.

The design of the bottom of the cup, as can be seen from the drawing, causes all material draining from the outside of the cup to flow away from the orifice and not influence the rate of flow from the orifice.

