

## **CALIBRATED EZ™ ZAHN (ASTM) DIP VISCOSITY CUPS**

**3% GUARANTEED TOLERANCE. COMPLIES WITH & EXCEEDS ASTM D 4212**

- Oils used to standardize EZ Cups are produced in accordance with ISO 9002: 1984; EN 29002: 1984; BS5750 Part 2: 1984; ANSI/ASQC Q92: 1984.
- The EZ Cup formula for each cup of the series matches the applicable ASTM formula in D 4212 at the recommended calibration level.
- EZ Cups are compatible to ASTM D 1084 Viscosity of Adhesives and ASTM D 816.
- Conversion table relating efflux time in seconds, to the nearest tenth of a second, to viscosity in centistokes furnished with each EZ Cup.
- EZ Cup calibration is traceable to the National Institute of Standards and Technology.
- Calibration and Certification procedures qualify under ANSI/NCSL Z540-1 or MIL-STD- 45662A as applicable.
- The EZ Cup is not matched by any other cup of it's type, either with respect to the advantages listed above, in highest quality of workmanship or in continuing quality control procedures.
- All stainless steel cup and handle.
- THE FINEST, MOST RELIABLE, CALIBRATED & DOCUMENTED CUP ON THE MARKET.

### ADDITIONAL EZ CUP ADVANTAGES

- The EZ Cup orifices are machined rather than drilled to insure exact centering in the cup hemisphere base and a minimum of burr formation. This insures an orifice of specified length and a correct symmetrical efflux stream.
- The EZ Cup support rods are offset from the side of the cup and secured to the cup sidewall below the cup rim. This eliminates errors due to test material drainage from support surfaces.
- The increased separation width of the support rods by over 20% and the lowering of weld to the cup provide best possible conditions for cleaning.

### CONTINUING IMPROVEMENTS

The new EZ Viscosity Cup Series is a logical and necessary outgrowth of the standardization studies on the Zahn Signature and similar cups for the promotion of this most popular type of viscosity measuring instrument as a national and international standard. Not only has this cup been improved with respect to earlier produced cups and designed to comply too the requirements

of ASTM D 4212. In addition, each EZ Cup is furnished with a table that permits conversion between efflux time in seconds to the nearest tenth of a second to viscosity in centistokes. This table is particularly useful in determining efflux time in seconds when viscosity in centistokes is known.

For those users who require documented certification of their measuring equipment, the EZ™ cups may be ordered, at an additional charge, with a CERTIFICATE of Calibration. This document contains not only information on actual cup calibration

with standard oils traceable to the National Institute of Standards and Technology but in addition, this certification also complies

to conditions and procedures under the requirements of ANSI/NCSL Z540-1 or MIL-STD-45662A as applicable.

The EZ™ cups are produced to very close mechanical tolerance in elaborate jigs and fixtures. Such equipment not only insures

that each cup is correctly produced but also that all cups are identical. All parts of the cup are of stainless steel except for the

nameplate. The following table provides operating range specifications, cup midrange sensitivity and recommended calibrating

oils. Following this table are graphs and mathematical formulas that relate efflux time in seconds to centistoke viscosity.



## SPECIFICATION TABLE

CUP RANGE	SECONDS RANGE	CENTISTOKE SENSITIVITY	MIDRANGE OIL NUMBER <sup>1</sup>	CALIBRATION NUMBER <sup>2</sup>
1	40 to 60	10 to 36	1.3	G-10/19
2	20 to 60	19 to 156	3.3	G-60/117
3	12 to 60	64 to 596	10.5	G-200/458
4	10 to 60	79 to 784	13.9	G-200/458
5	10 to 60	161 to 1401	24.2	G-360/878

<sup>1</sup>Stated as centistokes per second of efflux time.

<sup>2</sup>Centistoke values are nominal - actual values printed on labels

## AVAILABLE ITEMS

Item Number	Item
800-VI-EZ1	No. 1 EZ™ Dip Viscosity Cup with Conversion Table
800-VI-EZ2	No. 2 EZ™ Dip Viscosity Cup with Conversion Table
800-VI-EZ3	No. 3EZ™ Dip Viscosity Cup with Conversion Table
800-VI-EZ4	No. 4EZ™ Dip Viscosity Cup with Conversion Table
800-VI-EZ5	No. 5EZ™ Dip Viscosity Cup with Conversion Table
800-VI-3803	G-10 Certified Viscosity Standard - Pint
800-VI-3815	G-60 Certified Viscosity Standard - Pint
800-VI-3821	G-200 Certified Viscosity Standard - Pint
800-VI-3825	G-350 Certified Viscosity Standard - Pint
<b><i>Certificate of Calibration available at additional charge for all cups.</i></b>	

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