

Density Comparator



Measurement of Glass Density

- Accurate and reliable method for determining density of glass and ceramics
- Valuable tool for the testing laboratory
- Convenient, all-in-one testing station

The Agr Density Comparator (DC) is a laboratory device that provides fast, reliable measurement of glass density for routine control of glass composition.

The Density Comparator determines the density of a glass sample by the sink-float method as described in ASTM Standard Method C729. With the Density Comparator, a specimen of unknown density is compared with a reference standard of known density. The specimen and the standard are placed in a test tube containing a liquid of known density. The tube is then immersed in a variable-temperature bath. Initially, the standard and specimen both float in the solution. As the temperature rises, both the standard and specimen will sink or settle in the solution. As the standard and specimen reach a reference line on the test tube, the temperature of the liquid in the test tube is measured. The temperature is then referenced to a table of Density Difference and the density of the specimen is calculated.

FEATURES

- Circulating water bath with automatic and manual heating controls
- Cooling coil (tap water based) for rapid system cooling
- Ability to perform six tests simultaneously
- Gauged sample tubes
- Table top size
- Back light for easy viewing of test
- Heavy and light miscible liquids provided for testing a range of densities