

Palm Abbe™ Digital Refractometer

*Accurate Measurement
Of Fluid Properties*





Palm Abbe™ Digital Refractometer

Palm Abbe DIGITAL Refractometer

The MISCO *Palm Abbe* is fast, convenient, and easy to use. With a drop or two of fluid in the titanium well, it delivers a readout in degrees Brix. Nonlinear temperature compensation is automatic and ensures fluids are measured accurately between 32°F–122°F (0°C–50°C).

A fluid maintenance program is initiated by the operator taking a Palm Abbe reading and referring to the Refractometer Factor on our product label or D&I sheet to determine the exact concentration of fluid – then maintaining that level on an ongoing basis with daily readings.

Charting daily refractometer readings and tracking actual-versus-desired concentration is the easiest way to prevent deviation from desired concentration.

Get our Handy TRIM® Run Chart

By tracking daily readings on our handy TRIM® Run Chart, the operator can readily see when fluid is in the acceptable range or beginning to fall into unacceptable levels – make daily adjustments as needed to keep concentration right on target.

The handy digital file is FREE – simply ask your Master Fluid Solutions distributor.

Easy yet Accurate

Palm Abbe calibration is automatic and does not require the use of special calibration solutions or tools. No more screws to turn and nothing to adjust.

Features

- > large LCD face for easy reading even in dim light
- > user interface has two buttons: one for readings, the other to set instrument
- > automatically calibrates itself to water and is ready to use in seconds.

Options

- > handy ballistic nylon holster
- > rubber armor protective cover
- > programmable to customer-specific concentrate (can be reprogrammed for fluid change for an additional cost)
- > NIST certification

The Palm Abbe Digital Refractometer gives fast, accurate measurement of coolant or cleaner concentration.



Specifications and Utilities

Temperature Compensation Range: 32°F–122°F (0°C–50°C)
 Min. Sample Volume: 0.3 ml
 Measuring Time: 5 seconds
 Power Supply: two AAA batteries
 Battery Life Expectancy: 5,000+ readings
 Dimensions: 5.7 x 2.95 x 1.46 in. (145 x 75 x 37 mm)
 Net Weight: 8.75 oz. (849 grams)
 Well Material: Stainless steel
 Prism Material: Sapphire
 LCD Display: 12 characters, 2 lines
 Display Language: English

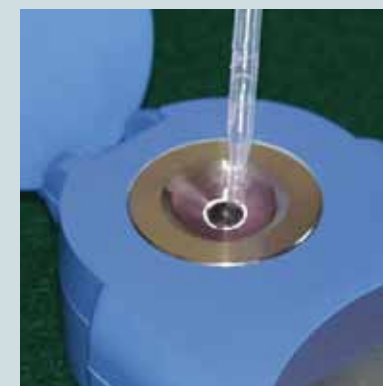
Accurate Measurement of Fluid Properties

Palm Abbe Refractometer Easy As 1-2-3!

STEP 1: Use a pipette to transfer one or two drops of fluid into the stainless steel sample well.

STEP 2: Close the evaporation cover to protect the sample from stray light and evaporation.

STEP 3: Press the <GO> button to initiate the reading. Within seconds the reading is visible in the LCD window.



Titration Kits and pH Test Strips

Sometimes it is difficult to measure concentration by refractive index due to physical factors (such as the presence of tramp oil in the sump). In those cases, use *Master Fluid Solutions Titration Kits CGF-1* and *CL-1* to check the concentration of your coolants and cleaners.

While checking concentration, be sure to also check the pH. Using our *pH Test Strips* is a simple way of determining the degree of acidity/alkalinity of aqueous solutions.

These kits and test strips are purchased only through Master Fluid Solutions directly.

Keeping the concentration controlled, and the pH within the recommended range is a sure way to keep fluids performing much better and lasting much longer!

Measure concentration of your TRIM® cutting and grinding fluids with Titration Kit CGF-1; check your Master STAGES™ cleaner concentration with Titration Kit CL-1.





**Committed today
for a greener tomorrow**

Our corporation is committed to sustaining our natural resources, protecting our environment, and leaving a smaller footprint on the places we all call home.

As a manufacturer of fluids and fluid recycling equipment, we are committed to promoting conservation in manufacturing and helping customers maximize productivity while minimizing waste.

Just visit masterfluidsolutions.com and click on "Green Policy" to learn more about our commitment to environmental stewardship.



Performance-proven cutting and grinding fluids

Master Fluid Solutions has been recognized for more than 60 years for its TRIM® family of metalworking fluids for all types of cutting and grinding operations. Known worldwide for superior performance, TRIM meets the demands of specialized industries such as automotive, aerospace, and medical parts manufacturers.

For the full range of cutting and grinding applications for synthetics, semisynthetics, and soluble oils, TRIM solutions deliver longer tool and sump life, better finished parts, and a better bottom line.



Get more than just clean with Master STAGES™

As effective cleaning and metal protection is essential to attaining precision parts and exceptional surface finish, Master STAGES™ products include a full line of parts cleaners, corrosion inhibitors, and maintenance cleaners.

Designed for aerospace, medical, automotive, energy exploration, heavy equipment, and general manufacturing production, these products meet stringent requirements to keep customers environmentally compliant, running at peak performance, and more profitable.



Master Fluid Solutions™
—Cutting Edge Metalworking Solutions™—

www.xybex.com

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