

# Refractometers



## Handheld Refractometers

## REFRACTOMETERS

VEE GEE's benchtop and handheld refractometers provide users with highly accurate readings for a wide range of applications in the agricultural, food & beverage, chemical and manufacturing industries.

We offer a large breadth of scales for specific applications such as Brix, NaCl, Salinity, Specific Gravity of Seawater, Coolant, Battery Acid, and more.

### X-Series Handheld Refractometers

#### Compact & Portable

The X-Series handheld refractometers are exceptionally simple to operate and provide quick, accurate measurements for the concentration of nearly any aqueous solution in a wide range of applications.

Made durable with industrial-grade design features to provide years of reliable use even in the field. Rugged metal housing construction with slip-resistant rubber grip and a Non-Roll stand to protect from rolling off surfaces.

No need to recalibrate or apply correction factors in work environments with large temperature swings with the Automatic Temperature Compensation (ATC) feature included on Models BTX-1, BTX-20, STX-3, CTX-1 & CTX-2. The effective compensation range is 50-86° F / 10-30° C.

Our portable line of optical and digital refractometers offers the convenience to perform sample analysis where and when you need. With added temperature control, our Abbe benchtop unit takes the accuracy of your Brix/Refractive Index analysis to the next level in the laboratory.

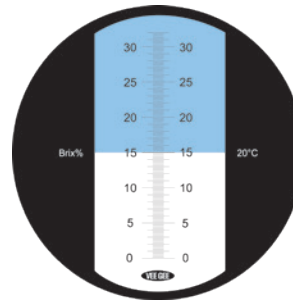


#### Protective Grip

The rubber grip reduces hand slipping and guards against user's hand heat to maintain accuracy

#### Tool-Free Calibration

Tools not required with our patented "Zero-Ring" calibration (non ATC units only)



#### Accurate & Sharp Readings

Large scale is best in class delivering clear, sharp figures, screen shading and incredible contrast for overall accuracy

#### Quick Results

High quality optical glass prism and all-metal housing design allows the sample and prism to reach temperature equilibrium quickly

#### X-Series Specifications

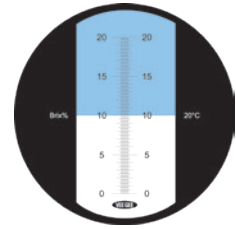
<b>Sample Type</b>	Transparent and Translucent
<b>Sample Quantity</b>	>0.1 mL
<b>Prism</b>	Optical Glass
<b>Prism Housing</b>	Copper Alloy w/Nickel-Chrome Coating
<b>Included</b>	Carrying Case, Plastic Transfer Pipet, Instruction Manual * ATC models include calibration screwdriver.
<b>Warranty</b>	5-Year

## X-Series Handheld Refractometers

For Food, Beverage, and Agriculture Applications

### Brix Handheld Refractometers

Item No.	Model No.	Scale	Range	Resolution	Accuracy	ATC	Approx Length (in/mm)
43001	BX-1	Brix	0 to 32%	0.2%	±0.2% Brix	No	6.5 / 165
43002	BTX-1	Brix	0 to 32%	0.2%	±0.2% Brix	Yes	6.5 / 165
43003	BX-2	Brix	28 to 62%	0.2%	±0.2% Brix	No	5.9 / 150
43004	SGX-1	Brix/Specific Gravity Beer Wort	0 to 32% 1.000 to 1.130	0.2% / 0.001	±0.2% / ±0.001	Yes	6.5 / 165
43005	BX-3	Brix	60 to 92%	0.2%	±0.2% Brix	No	5.5 / 140
43006	HMX-1	Brix, Honey Moisture	Brix, 58.0 to 92% Water, 13 to 27% Baume, 38 to 43°	0.5% 1.0% 0.5°	±0.5% Brix ±1.0% Water ±0.5° Baume	Yes	5.8 / 148
43007	BX-4	Brix	45 to 82%	0.2%	±0.2% Brix	No	5.5 / 140
43009	BX-10	Brix	0 to 10%	0.1%	±0.1% Brix	No	7.3 / 185
43011	BX-20	Brix	0 to 20%	0.1%	±0.1% Brix	No	7.3 / 185
43012	BTX-20	Brix	0 to 20%	0.1%	±0.1% Brix	Yes	7.3 / 185
43015	BX-50	Brix	0 to 50%	0.5%	±0.5% Brix	No	5.7 / 145



43012/Model BTX-20



## New! Brix Field Kits

Everything you need for in field testing at the Vineyard or Honey Bee Farm

Includes durable Carrying Case with Refractometer, Microfiber Cloth, Bottle for Distilled Water, Sample Cup, Sample Pipette, Calibration Screwdriver and Manual

Item No.	Model No.	Scale	Range	Resolution	Accuracy	ATC	Approx. Length (in/cm)	L x W x H of Kit (in/cm)
43002-KIT	BTX-1	Brix	0 to 32%	0.2%	±0.2% Brix	Yes	6.5 / 165	10.5 x 7 x 3 in.
43006-KIT	HXM-1	Brix, Honey Moisture	Brix, 58.0 to 92% Water, 13 to 27% Baume, 38 to 43°	0.5% 1.0% 0.5°	±0.5% Brix ±1.0% Water ±0.5° Baume	Yes	5.8 / 148	26.7 x 17.8 x 7.6 cm

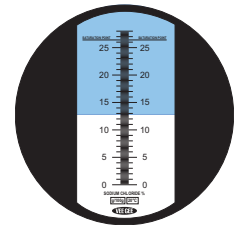


## Water Testing Refractometers

For Water/Wastewater, Aquatic and Aquaculture Applications

### Sodium Chloride And Salinity Handheld Refractometers

Item No.	Model No.	Scale	Range	Resolution	Accuracy	ATC	Approx.Length (in/mm)
43033	SX-1	NaCl	0 to 10%	0.1%	±0.1%	No	7.3 / 185
43035	SX-2	NaCl	0 to 28%	0.2%	±0.2%	No	6.5 / 165
43036	STX-3	Salinity Specific Gravity of Seawater	0 to 100 ppt 1.000 to 1.070	1.0 ppt 0.001	±1.0 ppt ±0.001	Yes	7.3 / 185



43035/Model SX-2



## New! Water Testing Field Kit

Testing when and where you need to with this convenient kit

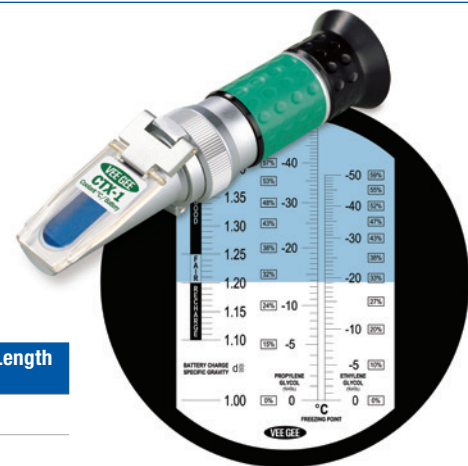
Includes durable Carrying Case with Refractometer, Microfiber Cloth, Bottle for Distilled Water, Sample Cup, Sample Pipette, Calibration Screwdriver and Manual

Item No.	Model No.	Scale	Range	Resolution	Accuracy	ATC	Approx. Length (in/mm)	L x W x H of Kit (in/cm)
43036-KIT	STX-3	Salinity Specific Gravity of Seawater	0 to 100 ppt 1.000 to 1.070	1.0 ppt 0.001	±1.0 ppt ±0.001	Yes	7.3 / 185	10.5 x 7 x 3 in. 26.7 x 17.8 x 7.6 cm



## X-Series Handheld Refractometers

For Light Industrial, Chemical, and Automotive Applications



43062/Model CTX-1

### General Purpose and Industrial Chemical Handheld Refractometers

Item No.	Model No.	Scale	Range	Resolution	Accuracy	ATC	Approx. Length (in/mm)
43055	NDX-2	Refractive Index	1.435 to 1.520	0.001	±0.001	No	5.5 / 140
43062	CTX-1	Propylene Glycol Freezing Point	-58 to 32°F / -50 to 0°C	33.80°F 1°C	±1°C	Yes	5.9 / 150
		Ethylene Glycol Freezing Point	-50 to 0°C	1°C	±1°C		
		Battery Acid Specific Gravity	1.10 to 1.40	0.01	±0.01		
43064	CTX-2	Propylene Glycol Freezing Point	-50 to 32°F / -45.56 to 0°C	2°F -16.67°C	±2°F	Yes	5.9 / 150
		Ethylene Glycol Freezing Point	-60 to 32°F	2°F	±2°F		
		Battery Acid Specific Gravity	1.10 to 1.40	0.01	±0.01		
43071	URX-60	Urea	0 to 60%	0.5%	±0.5%	No	5.7 / 145

### Accessories

Item No.	Description	Model
43000-DLXXX	Daylight Plate Kit	X-Series Handheld Refractometers Kit includes: Ring, Hinge, Plate, and Screw. Assembled
43RP-008	Soft Fabric Carrying Case	X-Series Handheld Refractometers
1111	Soft Vinyl Carrying Case	BX-1, BTX-1, BX-2, BX-3, BX-4, BX-50, SX-2, NDX-2, CTX-1, CTX-2, HMX-1, SGX-1, URX-60
1111L	Soft Vinyl Carrying Case	BX-10, BX-20, BTX-20, SX-1, STX-3



43000-DLXXX  
Daylight Plate Kit