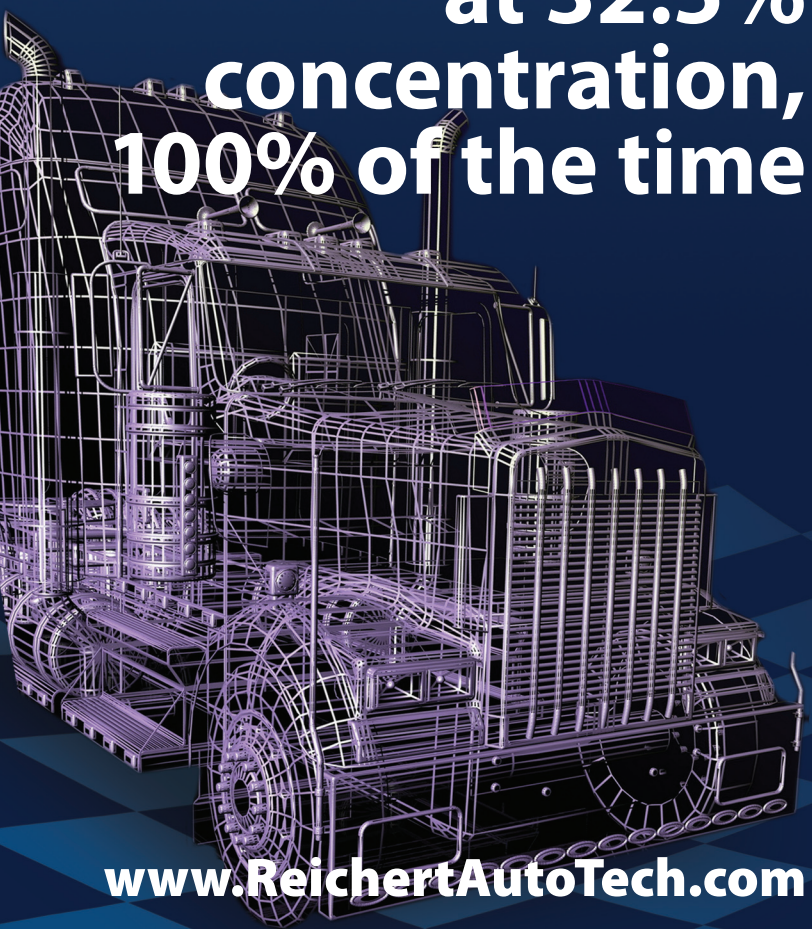
TOP 20 TOOLS MOTOR 2011

Awarded one of MOTOR Magazine's TOP 20 NEW TOOLS for 2011!

Maintain optimal SCR performance and keep rolling at 32.5% concentration, 100% of the time



The Reichert Digital *DEF-Chek*®... the fast, accurate, state-of-the-art digital instrument for testing Diesel Exhaust Fluid (DEF)

Clean exhaust systems for cleaner air.

Selective Catalytic Reduction (SCR) systems for diesel automobiles, trucks, buses, and off road equipment require pure Diesel Exhaust Fluid at an exact concentration of ***32.5%*** urea in deionized water. This fluid is known as DEF, AdBlue®, ARLA, and AUS 32. Any other concentration compromises the SCR system, which fails the regulatory requirements of governmental agencies such as the EPA, European Commission, and MLIT.

Reichert DEF-Chek®: digital, state-of-the-art protection for your SCR system.

The Reichert **DEF-Chek®** digital instrument accurately measures DEF for the right urea content detecting whether the fluid will do its job in the exhaust system. The world's smallest scientific DEF testing device offers quick, automatic digital measurements in seconds and provides over 10,000+ measurements on two AAA batteries. The Reichert **DEF-Chek®** was chosen by MOTOR magazine as a *MOTOR Top 20 Tools Award*.

www.ReichertAutoTech.com

Reichert®
TECHNOLOGIES
Analytical Instruments•Automotive&Truck

Leave the science to Reichert.

With the simple push of a button, the Reichert Digital **DEF-Chek®**, the world's smallest handheld digital tester, will quickly and accurately measure the % concentration of Urea in deionized water, commonly referred to as Diesel Exhaust Fluid. Diesel powered vehicles are required to meet new strict EPA, European Commission, and MLIT standards regarding tailpipe emissions. The technology of Selective Catalytic Reduction (SCR) has been adopted by the major manufacturers to address this requirement. In the European market, this SCR technology using AdBlue® (Diesel Exhaust Fluid) has been accepted and utilized for many years. Diesel Exhaust Fluid (DEF) is injected into the exhaust gasses as a mist before it passes through the catalyst. The catalyst and DEF converts harmful and polluting Nitrogen Oxide (NOx) into harmless nitrogen and water vapor. For this technology to work, the Urea in the deionized water must have an exacting concentration of 32.5%. Any deviation from this Urea concentration will adversely affect this technology. With the growth of SCR equipped diesel engines, automobile and truck dealerships, service centers, trucking fleets, service stations, and truck stops are using Diesel Exhaust Fluid, and it is important to insure the quality of the DEF is maintained throughout the supply chain.

Avoid costly repair bills and fines!

The Reichert Digital **DEF-Chek®** tester detects changes in the concentration caused by water dilution and adulteration. Check the concentration of Diesel Exhaust Fluid (DEF) like you would check the concentration of engine coolant (Antifreeze). Both DEF and engine coolant have been chemically formulated to work effectively at a specific concentration. **An incorrect concentration will result in potential costly damage** to the SCR system (injectors) and failing the emissions standards set by government agencies.

Reichert DIGITAL *DEF-Chek®*

Part#	Description
13940013	DEF-Chek® digital model (% Urea)

Reichert DIGITAL *Multi-Chek®*

Part#	Description
13940014	Multi-Chek® digital model (Fahrenheit)
13940015	Multi-Chek® digital model (Celsius)

Reichert DIGITAL *Brake-Chek®*

Part#	Description
13940016	Brake-Chek® digital model (Fahrenheit)
13940017	Brake-Chek® digital model (Celsius)

Reichert DIGITAL *Glycerin, EG, PG-Chek*

Part#	Description
13940022	Glycerin-Chek digital model (Fahrenheit)
13940023	Glycerin-Chek digital model (Celsius)
13940024	EG-Chek digital model (Fahrenheit)
13940025	EG-Chek digital model (Celsius)
13940026	PG-Chek digital model (Fahrenheit)
13940027	PG-Chek digital model (Celsius)

The Reichert DIGITAL *DEF-Chek®*

SPECIFICATIONS:

Catalog Number	13940013
Measurement Method	Digital Refractometer
Reading Scale	DEF/AdBlue®/ARLA/AUS32 - Diesel Exhaust Fuid, % urea in deionized water
Reading Range	0.0 to 50.0% urea concentration by weight (w/w)
Accuracy	+/- 0.1%
Calibration	Distilled Water
Automatic Temperature Compensation	68°F (20°C)
Illumination	589nm LED
Dimensions	54 x 27 x 100 mm / 2.1 x 1.1 x 3.9 inches
Weight	3.5 ounces (100 grams)
Comfort/Ergonomics	Detachable neck lanyard and rubber side grips for ease of handling
Power	2 AAA Batteries, included
Power Management	10,000 readings, Auto-Off Sleep Mode
Ratings	IP65 Dust proof/Water Resistant, CE, RoHS, and WEEE compliant.
Factory Warranty	One Year
Accessory Holster case	(cell phone type) available – Catalog 13941000

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