

# Nickel High Range Handheld Colorimeter

Checker<sup>HC</sup>  
handheld colorimeter



#### Easier to use and more accurate than chemical test kits

- Photometric method
- $\pm 0.10$  g/L  $\pm 5\%$  of reading accuracy
- 0.01 g/L resolution (700 points)
- Large, easy to read digits
- Auto shut off

#### Dedicated to a single parameter

- Designed to work with HANNA's powder reagents
- Uses 10 mL glass cuvettes

#### Small size, big convenience

- Weighing a mere 64 g (2.25 oz.), the Checker<sup>HC</sup> easily fits into the palm of your hand or pocket
- Use for quick and accurate on the spot analysis
- One button operation: zero and measure
- Operated by a single AAA battery

#### Ideal for:

- Steel manufacturing, electroplating and electronics production

Nickel is extensively used in electroplating, the manufacturing of steel, electronic devices, ceramics and colored glasses. It plays a vital role in many processes of applied sciences and fundamental sciences. It necessitates development of rapid methods for estimation of nickel.

Nickel is seldom found in natural waters, but often present in industrial wastewater as a direct by-product of metal plating baths, and as a corrosion by-product of stainless steel, nickel or cobalt alloys.

The most serious effects of nickel, such as lung cancer and nasal sinus have occurred in people who have breathed nickel dust while working in nickel refineries or in nickel processing plants. The levels of nickel in the workplace were much higher than background levels. The Department of Health and Human Services has determined that nickel and certain nickel compounds may be reasonably anticipated to be carcinogens. The International Agency for Research on Cancer (IARC) has determined that some nickel compounds are carcinogenic to humans and that metallic nickel may possibly be carcinogenic to humans. The EPA has determined that nickel refinery dust and nickel subsulfide are human carcinogens. Other lung effects including chronic bronchitis and reduced lung function have been observed in workers breathing nickel.

The HI 726 Checker<sup>HC</sup> is extremely simple to use. First, zero the instrument with your water sample. Next, add the reagent, shake gently until complete dissolution. Then, place the vial into the Checker<sup>HC</sup>, press the operational button for about 3 seconds. The display will show the countdown prior to the measurement or, alternatively, wait for 1 minute and press operational button. When the timer ends the meter will perform the reading and display concentration in g/L of nickel. It's that easy.

SPECIFICATIONS	HI 726 (Nickel HR)
Range	0.00 to 7.00 g/L
Resolution	0.01 g/L
Accuracy @ 25°C/77°F	$\pm 0.10$ g/L $\pm 5\%$ of reading
Light Source	LED $\phi$ 575 nm
Light Detector	silicon photocell
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Battery Type	(1) 1.5V AAA
Auto-off	after three minutes of non-use and ten seconds after reading
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")
Weight	64 g (2.25 oz.)
Method	adaptation of the photometric method

#### ORDERING INFORMATION

HI 726 Checker<sup>HC</sup> is supplied with sample cuvettes with caps (2 ea.), powder reagents for Nickel HR (5), battery and instructions.

#### REAGENTS AND STANDARDS

HI 726-25	Reagents for 25 tests (Nickel HR)
HI 726-11	Calibration checking set (0 and 3.50 Nickel HR)

#### ACCESSORIES

HI 73131B	Cuvette cleaning cloth (4)
HI 731321	Glass cuvettes (4)
HI 731225	Caps for cuvettes (4)
HI 93703-50	Cuvette cleaning solution, 230 mL