

Colorimeter CT1500

The instrument is suitable to determine color of various lubricating oils and other petroleum products as per SH/T 0168-92 "Test Method for Color of Petroleum Products". The test methods are as follows: fill test sample into color comparing tube and compare sample color with standard color to ascertain its color number. Please see the attached color number comparing sheet to find out the similarity between color number of the instrument and color number in standard GB/T6540.

Main Features:

- ◆ The instrument is composed of standard color dial, observation lens, light source and color comparing tube.
- ◆ The light source is a 220 V, 100 W, with temperature of 2750 ± 50 K grinding milk white light bulb. After filtering color by milk white glass and sunshine filtering glass, the spectrum characteristics of light gained from sunshine is similar to it. The standard light will change into two parallel lights, which is similar in size, trough plane reflection mirror and prism. The parallel lights will irradiate on sample in the color comparing tube on the color glass of standard color dial evenly and respectively.
- ◆ There are 26 pieces of $\Phi 14$ light holes. And standard color glasses having 1~25 color number are installed in the 25 of these holes in sequence. The 26 hole is blank. The color dial is rotated by a hand wheel installed at right side of instrument to choose the correct color during color comparing test. The standard color comparing glass on the color dial should be calibrated by standard color comparing liquids. The color comparing tube is $\Phi 32$ mm, 120~130 mm high non-colorful flat bottom glass tube. The color comparing tube is placed into instrument trough a lid on the top of the instrument.
- ◆ The observation lens is composed of concave mirror and separated bar. You can see two semicircle colors through observation lens. The right semicircle is standard color. The light and focus of optical observation lens can be adjusted, so it is easy to be used.

Structure:



Attentions:

- ◆ The light and focus of optical observation lens has been adjusted, please do not change it when used. Please pay more attention when adjusting it.
- ◆ Clean outer surface and bottom of test tube when you place the color comparing tube containing oil sample into instruments.
- ◆ The standard color glass should be calibrated by standard color comparing liquids stipulated in SH/T0168 every half year. If the difference between color of color glass and corresponding color number is more than one color number, you should change a new color dial or send it to manufacture for calibration.
- ◆ Warning: If there is any trouble appears, please cut off the power supply wire immediately. Then ask a professional to check and repair it. You can use it again only after the problem is solved to avoid any accidents.

Item	Specification
Model	CT1500
Application	Color testing of lubricating oils & petroleum products (SH/T 0168-92, GB/T 6540)
Color Dial	26 holes ($\Phi 14$ mm), colors No. 1 - 25 + 1 blank
Observation	Concave mirror, two semicircles view, adjustable focus
Light Source	220 V, 100 W bulb, 2750 ± 50 K
Filter	Milk-white glass & sunshine filter
Tube Size	$\Phi 32 \times 120 - 130$ mm, flat-bottom glass
Operation	Manual dial rotation via handwheel
Power	AC 220 V, 50 Hz

Full Set:

No.	Name	Unit	Quantity	Remark
1	Main unit	Set	1	
2	Color comparing tube	Piece	4	
3	Milk white grinding lamp	Piece	1	100 W, 220 V