

# Haemometer with Round Tube

## Description

A haemometer with a round tube is a device used to measure the haemoglobin content in blood. It uses a calibrated glass tube and reagents to determine haemoglobin concentration in clinical and diagnostic labs.

## Specification

- Material: Borosilicate glass tube
- Capacity: 5 ml or 10 ml typically
- Calibration: Graduated scale for haemoglobin levels
- Design: Round, smooth tube for accurate measurement
- Colour indicator: Paired with reagents for colorimetric comparison

## Sizes

- 5 ml (miniature size for paediatric or low volume testing)
- 10 ml (standard size for general use)

## Shapes

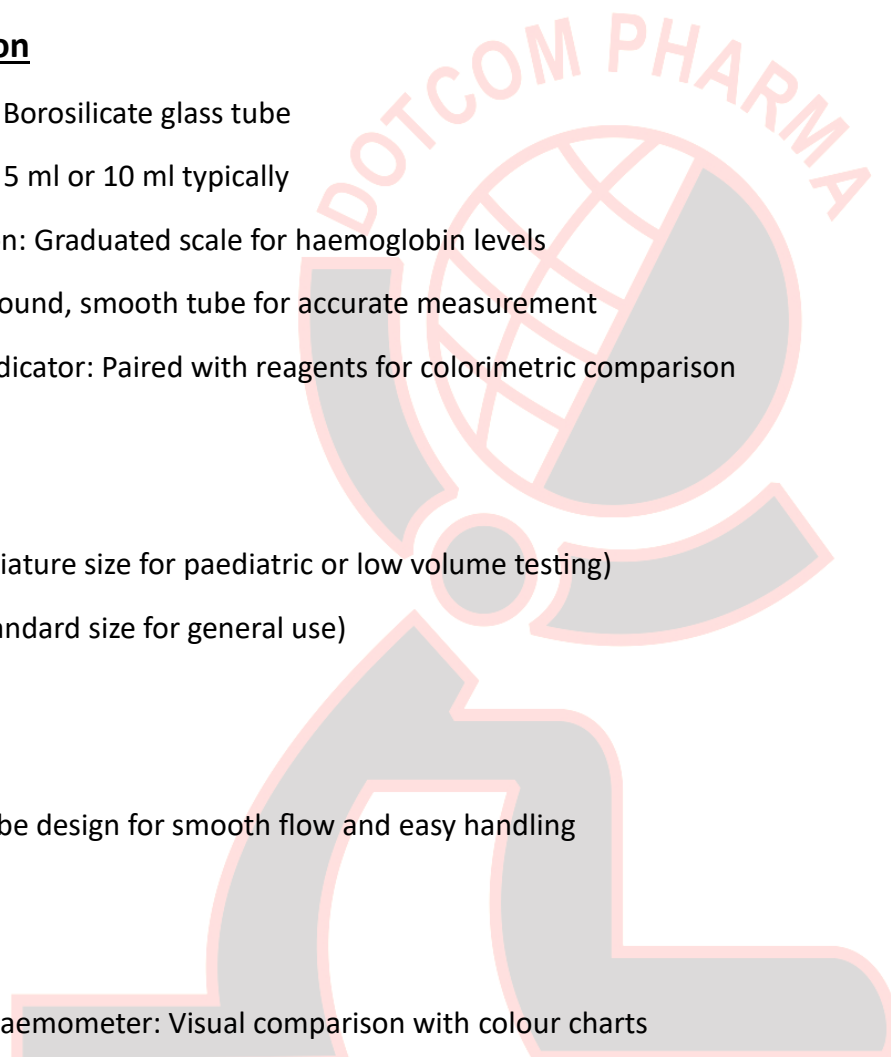
- Round tube design for smooth flow and easy handling

## Types

- Manual haemometer: Visual comparison with colour charts
- Semi-automatic haemometer: Photometric measurement with light sensors

## Material

- High-quality borosilicate glass for durability and chemical resistance
- Reagents typically include sodium lauryl sulphate and iron salts



## **Category**

- Medical diagnostic instruments
- Haemoglobin measurement devices
- Laboratory tools

## **Product Form**

Available individually or as part of a kit with reagents and instructions

## **Usage**

Measures haemoglobin concentration by mixing blood with reagents and comparing the resulting colour to standards.

## **Advantages**

- Simple and cost-effective
- Quick results in minutes
- Portable for use in clinics and fieldwork

## **Disadvantages**

- Visual reading can be subjective
- Limited to haemoglobin testing only
- Requires careful handling and calibration

## **Precautions**

- Handle glass carefully to prevent breakage
- Use correct reagents to ensure accuracy
- Calibrate regularly and avoid contamination

## **HS / HSN Code**

- HSN 9018: Medical and surgical instruments
- HSN 901819: Hemoglobinometers and related devices

## 🧤 Handling

- Clean before and after use
- Store reagents in a cool, dry place
- Avoid direct skin or eye contact with reagents

## 🔥 Sterilization Details

- Clean with mild soap or alcohol-based solution
- Dry thoroughly before storage
- Autoclaving possible for non-chemical components

## 🐾 Veterinary Application

Used to check haemoglobin in animals to diagnose anaemia and blood conditions. Useful in field and clinical settings for livestock and pets.

## 👤 Human Application

Used in hospitals and clinics to assess patient haemoglobin levels, aiding anaemia diagnosis and health monitoring.

## ❓ Frequently Asked Questions (FAQ)

### **What is a haemometer with a round tube?**

A device for measuring haemoglobin levels using a calibrated glass tube and reagents.

### **How does the round tube help?**

Ensures smooth flow and precise measurement of blood and reagent mixtures.

### **How are results read?**

By visual comparison to a colour chart or with a photometric sensor.

### **Can it be replaced by automated devices?**

Yes, automated analysers offer faster, more accurate readings but at higher cost.

### **How often should it be calibrated?**

Calibration should be done regularly, especially when reagents change or after long use.