



## Farnsworth-Munsell 100 Hue Test

### Visual Assessment Tools



Whether you work in design, production or quality approval, good color vision is essential for making accurate decisions. That is why it is important for anyone involved with the evaluation of color to understand how accurately they see color. The Farnsworth-Munsell 100 Hue Test (or FM 100 Hue Test) from Munsell Color is the industry standard for determining color discrimination and identifying an individual's capacity. Paired with the FM 100 Hue Test Scoring Software, it will allow you to easily score the test results and store the results for comparison over time.

#### Deliver Consistent Color

The FM 100 Hue Test is a key component to any visual color inspection process. Take subjectivity out of the visual evaluation process by understanding how well an individual can differentiate subtle differences in color and how they compare to others.

- Ensure the highest level of accuracy with evaluators being tracked and compared over time
- Deliver immediate test results with the user-friendly scoring software
- Eliminate subjectivity from the evaluation process
- Establish and maintain standards for those who make color critical decisions
- Communicate color results easily and with certainty
- Identifies the strengths or weaknesses in individual for how well they can communicate with others on color differences.

#### Standards Compliance

Complying with industry Standards is incredibly important. In addition to receiving a product certification suitable for ISO certifications, the FM 100 Hue Test is called out in the following Standards:

- ASTM 1499-97 Standard Guide for the Selection, Evaluation, and Training of Observers
- ASTM 1729-96 Standard practice for Visual appraisal of colors and color differences of diffusely-illuminated opaque materials
- AATCC EP9-2002 Visual Assessment of Color Difference of Textile
- SPI PB-1 Visual Evaluation of Reflected Color
- SAE J 361 Procedure for Visual Evaluation of Interior and Exterior Automotive Trim
- TAPPI T515 Visual Grading and Color Matching of Paper - references ASTM1729

# Farnsworth-Munsell 100 Hue Test

## Taking the test is simple

A global standard that has been used by governments and industry for more than 60 years, the FM 100 Hue Test evaluates and ranks color acuity. The FM 100 Hue Test consists of four trays containing a total of 85 removable color reference caps which represent incremental hue variations spanning the visible spectrum. Under controlled lighting, such as a X-Rite Judge LED or X-Rite SPLQC light booth, arrange four sets of precisely colored caps that have a similar Value and Chroma but are all subtly different in Hue, in order, from one hue to another. Color vision aptitude is detected by the ability of test subject to place the color caps in order of hue. The fewer errors, the better your color discrimination.



## About the Farnsworth-Munsell 100 Hue Test

The Farnsworth-Munsell 100 Hue Test is specified by the American Society for Testing and Materials in ASTM E 1499, Standard Guide for Selection, Evaluation and Training of Observers; the American Association of Textile Chemists and Colorists AATCC Evaluation Procedure 9; and numerous internal procedures for leading companies in a variety of industries. The Farnsworth Munsell 100 Hue Test is produced by Munsell Color of X-Rite. The FM 100 Hue Test produced by Munsell Color is traceable to the National Institute of Standards and Technology (NIST). All Munsell Color products are manufactured to the strictest guidelines in accordance with the above accreditations and their associated practices and procedures.

## Specifications

Dimensions (length, width, height)	21.5" x 6.25" x 2.5"
Weight	3 lbs.
Package Dimensions (length, width, height)	21" x 7" x 4"
Shipped Weight	3 lbs.

## System Requirements

Windows 10 and Newer

MacOS 10.12 or Newer