



AnLab Color Scale

Background

The Adams-Nickerson or AnLab Color Scale is a Munsell-based color scale. This color scale has 92 units between black and white.

The AnLab Color Scale is normally expressed as L_A , a_A , and b_A . It is an opponent-color system similar to the other Lab systems.

Conditions for Measurement

Instrumental: Most HunterLab color measurement instruments. Availability may depend on the software package.

Illuminant: Any

Standard Observer Function: 2 or 10 degree

Transmittance and/or Reflectance: Either.

Formulas

$$L_A = 9.2 V_Y$$

$$a_A = 40 (V_X - V_Y)$$

$$b_A = 16 (V_Y - V_Z)$$

where

V_Y is the value function for lightness

$V_X - V_Y$ is the red-green chromaticity

$V_Y - V_Z$ is the yellow-blue chromaticity

V is the Munsell value function for which X/X_n , Y/Y_n , or $Z/Z_n = 1.2219V - 0.2311V^2 + 0.23951V^3 - 0.021009V^4 + 0.0008404V^5$.

Typical Applications

This color scale is no longer used very often. This color scale may be used for measurement of the color of any object whose color can be measured.

For Additional Information Contact:

Technical Services Department
Hunter Associates Laboratory, Inc.
11491 Sunset Hills Road
Reston, Virginia 20190
Telephone: 703-471-6870
FAX: 703-471-4237
www.hunterlab.com