

TUB colourimetry with normalization to $Y=90$, $C=Y_W : Y_N = 25 : 1$

Equations for Cyan (C), Rot (R), White (W), Grey (U), Black (N):

Tristimulus value

$$Y_C + Y_R = 48 + 42 = 90 \quad [1]$$

Ostwald and antagonistic (a) colour

$$Y_o + Y_a = (47+X) + (47-X) = 90 \quad [1a]$$

Chromatic value

$$|C_{AB,2,C}| = |C_{AB,2,R}| = 60 \quad [2]$$

Contrast

$$C = Y_W : Y_N = 90 : 3,6$$

$$= 25 : 1 \quad [3]$$

Chromaticity difference

$$c_{AB,2,C} = C_{AB,2,C} / Y_C \quad [4]$$

$$c_{AB,2,R} = C_{AB,2,R} / Y_R \quad [5]$$

