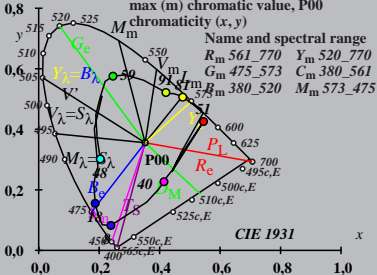


Ostwald colours (o), $Y_W=100$
 max (m) chromatic value, P00
 chromaticity (x, y)



CIE 1931

x

$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_0=(a_0-[a_{0,n}+a_{0,Y}+a_{0,A}]) Y$$

$$B_0=(b_0-[b_{0,n}+b_{0,Y}+b_{0,A}]) Y$$

$$a_0 = a_{20} [x/y]$$

$$b_0 = b_{20} [z/y]$$

$$a_{20} = 1, \quad b_{20} = -0,4$$

$$n = P00$$

$$a_{0,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{0,Y}=b_{2Y}(Y/Y_{18}-1)$$

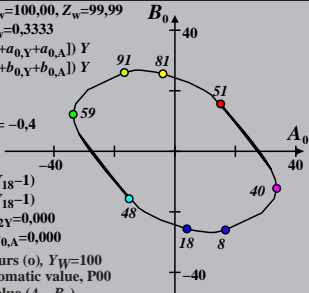
$$a_{2Y}=0,000, \quad b_{2Y}=0,000$$

$$a_{0,A}=0,000, \quad b_{0,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_0, B_0)



$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_1=(a_1-[a_{1,n}+a_{1,Y}+a_{1,A}]) Y$$

$$B_1=(b_1-[b_{1,n}+b_{1,Y}+b_{1,A}]) Y$$

$$a_1 = a_{20} [(x-0,171)/y]$$

$$b_1 = b_{20} [z/y]$$

$$a_{20} = 1, \quad b_{20} = -0,4$$

$$m_{T1}=1,000, \quad b_{T1}=0,171$$

$$n = P00$$

$$a_{1,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{1,Y}=b_{2Y}(Y/Y_{18}-1)$$

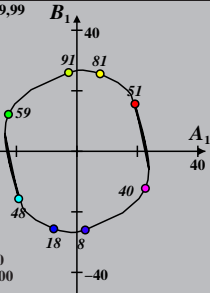
$$a_{2Y}=0,000, \quad b_{2Y}=0,000$$

$$a_{1,A}=0,000, \quad b_{1,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_1, B_1)



$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_2=(a_2-[a_{2,n}+a_{2,Y}+a_{2,A}]) Y$$

$$B_2=(b_2-[b_{2,n}+b_{2,Y}+b_{2,A}]) Y$$

$$a_2 = a_{20} [(x-0,171)/y]$$

$$b_2=b_{20} [(m_{P1}x+b_{P1})/y]$$

$$a_{20} = 1, \quad b_{20} = -0,4$$

$$m_{P1}=-0,107, \quad b_{P1}=0,369$$

$$n = P00$$

$$a_{2,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{2,Y}=b_{2Y}(Y/Y_{18}-1)$$

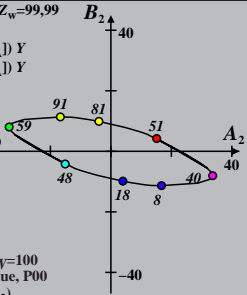
$$a_{2Y}=0,000, \quad b_{2Y}=0,000$$

$$a_{2,A}=0,000, \quad b_{2,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_2, B_2)



$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_3=(a_3-[a_{3,n}+a_{3,Y}+a_{3,A}]) Y$$

$$B_3=(b_3-[b_{3,n}+b_{3,Y}+b_{3,A}]) Y$$

$$a_3 = a_{20} [(x-0,171)/y]$$

$$b_3=b_{20} [(m_{D1}x+b_{D1})/y]$$

$$a_{20} = 1, \quad b_{20} = -0,4$$

$$m_{D1}=-0,730, \quad b_{D1}=0,576$$

$$n = P00$$

$$a_{3,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{3,Y}=b_{2Y}(Y/Y_{18}-1)$$

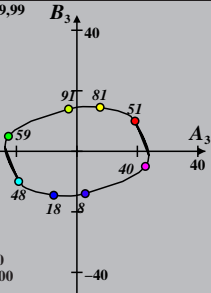
$$a_{2Y}=0,000, \quad b_{2Y}=0,000$$

$$a_{3,A}=0,000, \quad b_{3,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_3, B_3)



$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_4=(a_4-[a_{4,n}+a_{4,Y}+a_{4,A}]) Y$$

$$B_4=(b_4-[b_{4,n}+b_{4,Y}+b_{4,A}]) Y$$

$$a_4 = a_{20} [(x-0,171)/y]$$

$$b_4=b_{20} [(m_{P1}x+b_{P1})/y]$$

$$a_{20} = 1, \quad b_{20} = -0,4$$

$$m_{P1}=-0,107, \quad b_{P1}=0,369$$

$$n = P00 \quad -40 \quad 40$$

$$a_{4,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{4,Y}=b_{2Y}(Y/Y_{18}-1)$$

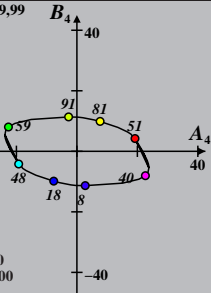
$$a_{2Y}=0,000, \quad b_{2Y}=0,000$$

$$a_{4,A}=0,000, \quad b_{4,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_4, B_4)



$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_5=(a_5-[a_{5,n}+a_{5,Y}+a_{5,A}]) Y$$

$$B_5=(b_5-[b_{5,n}+b_{5,Y}+b_{5,A}]) Y$$

$$a_5=a_{2x}[(+8,61x-7,19y-0,26)/y]$$

$$b_5=b_{2x}[(+1,99x+3,86y-2,40)/y]$$

$$a_{2x} = 0,10, b_{2x} = 0,10$$

$$\lambda_{B,G,Y,R}=475,503,574,494 \text{ nm}$$

$$n = P00$$

$$a_{5,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{5,Y}=b_{2Y}(Y/Y_{18}-1)$$

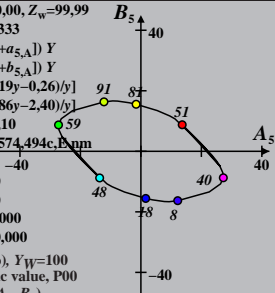
$$a_{2Y}=0,000, b_{2Y}=0,000$$

$$a_{5,A}=0,000, b_{5,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_5, B_5)



$$X_w=99,99, Y_w=100,00, Z_w=99,99$$

$$x_w=0,3333 \quad y_w=0,3333$$

$$A_6=(a_6-[a_{6,n}+a_{6,Y}+a_{6,A}]) Y$$

$$B_6=(b_6-[b_{6,n}+b_{6,Y}+b_{6,A}]) Y$$

$$a_6 = a_{20} [x/y]$$

$$b_6=b_{20} [(m_{D1}x+b_{D1})/y]$$

$$a_{20} = 1, \quad b_{20} = -0,4$$

$$n = P00$$

$$a_{6,Y}=a_{2Y}(Y/Y_{18}-1)$$

$$b_{6,Y}=b_{2Y}(Y/Y_{18}-1)$$

$$a_{2Y}=0,000, \quad b_{2Y}=0,000$$

$$a_{6,A}=0,000, \quad b_{6,A}=0,000$$

Ostwald colours (o), $Y_w=100$

max (m) chromatic value, P00

chromatic value (A_6, B_6)

