

log ($\Delta Y/\Delta Y_u$) **HAULAB tristimulus value difference**

$\Delta Y/\Delta Y_u$

ΔY normalized to ΔY_u

2 $100 L^* = s(Y/Y_n)^n - d$ ($Y_n=100, Y_u=22, s=134,6, n=0,31, d=34,6$) [1a]

$L^* = r(Y/Y_u)^n - d$ ($r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 44,4$) [1b]

$dY = [Y_n / (n s)] (Y/Y_n)^{1-n}$ [2c]

$dY_u = [Y_n / (n s)] (Y_u/Y_n)^{1-n} = 1,4083$ [2d]

1 $\frac{dY}{dY_u} = (Y/Y_u)^{1-n}$ [2e]

$\log(dY/dY_u) = (1-n) \log(Y/Y_u)$ [2f]

$m_{nu} = 1-n = 0,690$

$m_u = 0,659$

$L^*_{TUB} / L^*_{TUB,u}$

$\frac{L^*_{TUB} - d}{L^*_{TUB,u} - d} = \left(\frac{Y}{Y_u}\right)^n$

application range

$Y_u = 22$ $Y_u = 18$ 100

$0,1$ $0,931$ 10 100 Y $\log Y$