



Colour
difference
formula

Correlation of experimental data and colour difference formula by index S_{100}
 S_{100} is calculated on the basis of the STRESS-Formula von M. Melgosa
 The maximum value for total agreement is $S_{100} = 100$
 Experimental results large colour difference data of D, CZ, ES, GB

Calculation with standard parameters **Calculation with optimized parameters**
 Stress index | Name and value of parameters Stress index | Name and value of parameters

CIELAB	D	better	$\alpha = 1$	$\beta = 1$?	$\alpha = ?$	$\beta = ?$
	CZ	better	$\alpha = 1$	$\beta = 1$?	$\alpha = ?$	$\beta = ?$
	ES	equal	$\alpha = 1$	$\beta = 1$?	$\alpha = ?$	$\beta = ?$
	GB	worse	$\alpha = 1$	$\beta = 1$?	$\alpha = ?$	$\beta = ?$
CIEDE2000	D	worse	$K_C = 1$	$K_H = 1$?	$K_C = ?$	$K_H = ?$
	CZ	worse	$K_C = 1$	$K_H = 1$?	$K_C = ?$	$K_H = ?$
	ES	equal	$K_C = 1$	$K_H = 1$?	$K_C = ?$	$K_H = ?$
	GB	better	$K_C = 1$	$K_H = 1$		$K_C = ?$	$K_H = ?$

De600-3

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Correlation of experimental data and colour difference formula by index S_{100}
 S_{100} is calculated on the basis of the STRESS-Formula von M. Melgosa
 The maximum value for total agreement is $S_{100} = 100$
 Calculations for experimental threshold data of P. Kittelmann (2008)

Calculation with standard parameters **Calculation with optimized parameters**
 Stress index | Name and value of parameters Stress index | Name and value of parameters

CIELAB	55	$\alpha = 1$	$\beta = 1$	80	$\alpha = 0,52$	$\beta = 0,15$
CMC	57	$l = 1$	$c = 1$	71	$l = 0,42$	$c = 2,42$
CIE94	59	$K_C = 1$	$K_H = 1$	71	$K_C = 4,43$	$K_H = 2,03$
CIEDE2000	61	$K_C = 1$	$K_H = 1$	74	$K_C = 2,95$	$K_H = 3,18$
DIN99	68	$k_E = 1$	$k_{CH} = 1$	77	$k_E = 1,76$	$k_{CH} = 1,95$
DIN99o	59	$k_E = 1$	$k_{CH} = 1$	75	$k_E = 0,78$	$k_{CH} = 3,44$
LABJNS	60	$a_0 = 1$	$b_0 = 1,8$	81	$a_0 = 2,52$	$b_0 = 0,61$

De600-7

BAM-test chart no. De60; Colour difference evaluation
 Experiments about colour threshold and large colour differences

input: w^* setgray

output: no change compared to input

See for similar files: <http://www.ps.bam.de/De60/>; www.ps.bam.de/De.HTM
 Technical information: <http://www.ps.bam.de> Version 2.1, to=1,1

