Colour difference formula		**Correlation of experimental data and colour difference formla 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 $S_{100,s}$	**Name and value of parameters**		**Stress index $S_{100,o}$**	**Name and value of parameters**	
CIELAB	D	better	α = 1	β = 1	?	α = ?	β = ?
	CZ	better	α = 1	β = 1	?	α = ?	β = ?
	ES	equal	α = 1	β = 1	?	α = ?	β = ?
	GB	worse	α = 1	β = 1	?	α = ?	β = ?
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

Colour difference formula	**Correlation of experimental data and colour difference formla 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 $S_{100,s}$	**Name and value of parameters**		**Stress index $S_{100,o}$**	**Name and value of parameters**	
CIELAB	55	α = 1	β = 1	80	α = 0,52	β = 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