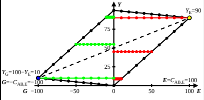
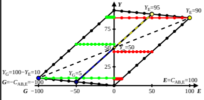
see similar files: http://farbe.li.tu-berlin.de/DE77/DE77.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=C_{AB,E}$=100, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-C_{AB,E}$=−100, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=100/90=1,1
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−100/10=−10



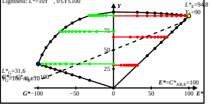
DE770−1N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=C_{AB,E}$=100, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-C_{AB,E}$=−100, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=100/90=1,1
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−100/10=−10



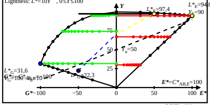
DE770−2N

Antagonistic Eigen and Gegen colour values *E* and *G* in *nonlinear* colour space
colour space (C^*_{AB}, L^*), see Table 4, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chroma $E^*=C^*_{AB,E}$=100, and Eigen lightness L^*_E=94,8
Gegen chroma $G^*=-C^*_{AB,E}$=−100, and Gegen lightness L^*_G=31,6
Eigen purity: $p^*_{ru,E}=C^*_{AB,E}/L^*_E$=100/94,8=1,0
Gegen purity: $p^*_{ru,G}=-C^*_{AB,E}/L^*_G$=−100/31,6=3,1
Lightness: $L^*=10Y^{1/2}$, 0≤Y≤100



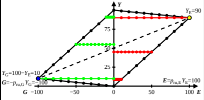
DE771−1N

Antagonistic Eigen and Gegen colour values *E* and *G* in *nonlinear* colour space
colour space (C^*_{AB}, L^*), see Table 4, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chroma $E^*=C^*_{AB,E}$=100, and Eigen lightness L^*_E=94,8
Gegen chroma $G^*=-C^*_{AB,E}$=−100, and Gegen lightness L^*_G=31,6
Eigen purity: $p^*_{ru,E}=C^*_{AB,E}/L^*_E$=100/94,8=1,0
Gegen purity: $p^*_{ru,G}=-C^*_{AB,E}/L^*_G$=−100/31,6=3,1
Lightness: $L^*=10Y^{1/2}$, 0≤Y≤100



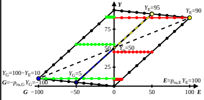
DE771−2N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=p_{ru,E}\,Y_E$=100, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-p_{ru,G}\,Y_G$=−100, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=100/90=1,1
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−100/10=−10



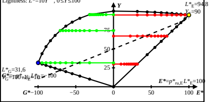
DE770−3N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=p_{ru,E}\,Y_E$=100, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-p_{ru,G}\,Y_G$=−100, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=100/90=1,1
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−100/10=−10



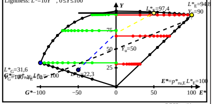
DE770−4N

Antagonistic Eigen and Gegen colour values *E* and *G* in *nonlinear* colour space
colour space (C^*_{AB}, L^*), see Table 4, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chroma $E^*=p^*_{ru,E}\,L^*_E$=100, and Eigen lightness L^*_E=94,8
Gegen chroma $G^*=-p^*_{ru,G}\,L^*_G$=−100, and Gegen lightness L^*_G=31,6
Eigen purity: $p^*_{ru,E}=C^*_{AB,E}/L^*_E$=100/94,8=1,0
Gegen purity: $p^*_{ru,G}=-C^*_{AB,E}/L^*_G$=−100/31,6=3,1
Lightness: $L^*=10Y^{1/2}$, 0≤Y≤100



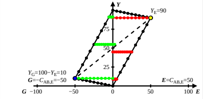
DE771−3N

Antagonistic Eigen and Gegen colour values *E* and *G* in *nonlinear* colour space
colour space (C^*_{AB}, L^*), see Table 4, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chroma $E^*=p^*_{ru,E}\,L^*_E$=100, and Eigen lightness L^*_E=94,8
Gegen chroma $G^*=-p^*_{ru,G}\,L^*_G$=−100, and Gegen lightness L^*_G=31,6
Eigen purity: $p^*_{ru,E}=C^*_{AB,E}/L^*_E$=100/94,8=1,0
Gegen purity: $p^*_{ru,G}=-C^*_{AB,E}/L^*_G$=−100/31,6=3,1
Lightness: $L^*=10Y^{1/2}$, 0≤Y≤100



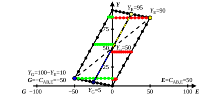
DE771−4N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=C_{AB,E}$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-C_{AB,E}$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



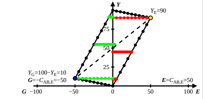
DE770−5N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=C_{AB,E}$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-C_{AB,E}$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



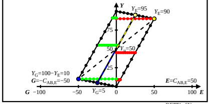
DE770−6N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=C_{AB,E}$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-C_{AB,E}$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



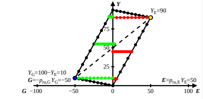
DE771−5N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=C_{AB,E}$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-C_{AB,E}$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



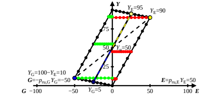
DE771−6N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=p_{ru,E}\,Y_E$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-p_{ru,G}\,Y_G$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



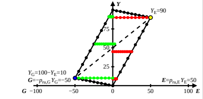
DE770−7N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=p_{ru,E}\,Y_E$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-p_{ru,G}\,Y_G$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



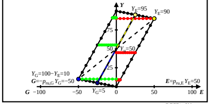
DE770−8N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=p_{ru,E}\,Y_E$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-p_{ru,G}\,Y_G$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



DE771−7N

Antagonistic Eigen and Gegen colour values *E* and *G* in *linear* colour space
colour space (C_{AB}, Y), see Table 3, http://farbe.li.tu-berlin.de/color/ES15.PDF
Eigen chromatic value $E=p_{ru,E}\,Y_E$=050, and Eigen tristimulus value Y_E=90
Gegen chromatic value $G=-p_{ru,G}\,Y_G$=−050, and Gegen tristimulus value Y_G=10
Eigen purity: $p_{ru,E}=C_{AB,E}/Y_E$=50/90=5,5
Gegen purity: $p_{ru,G}=-C_{AB,E}/Y_G$=−050/10=−5



DE771−8N

DE770−7N

DE771−7N

TUB-test chart DE77; *JUDD* observer, colorimetric clculations of chromatic values
Data see *K. Richter*, PhD thesis, University of Basel (Switzerland), 1969

TUB registration: 20180701-DE77/DE77L0N1.TXT /.PS
application for measurement of offset print output

TUB material: code=rha4ta