

| Basic offset colour or<br>mixture colour for D65<br>ORS18 with Yw=88,6                     | chromaticity |       | tristimulus values<br>(Y=88,6 for white D65) |        |        | Standard CIELAB data LAB* |        |        |                  |                 |
|--------------------------------------------------------------------------------------------|--------------|-------|----------------------------------------------|--------|--------|---------------------------|--------|--------|------------------|-----------------|
|                                                                                            | x            | y     | X                                            | Y      | Z      | L*                        | a*     | b*     | C* <sub>ab</sub> | h <sub>ab</sub> |
| three subtractive basic colours: printing colours acc. to ISO 2846-1                       |              |       |                                              |        |        |                           |        |        |                  |                 |
| C cyan blue                                                                                | 0,165        | 0,234 | 18,74                                        | 26,62  | 68,54  | 58,62                     | -30,62 | -42,74 | 55,59            | 234             |
| M magenta red                                                                              | 0,459        | 0,235 | 33,06                                        | 16,90  | 22,01  | 48,13                     | 75,20  | -6,79  | 75,51            | 355             |
| Y yellow                                                                                   | 0,441        | 0,500 | 68,06                                        | 77,10  | 9,03   | 90,37                     | -11,15 | 96,17  | 96,82            | 97              |
| three subtractive mixture colours: # DIN 33866-colours; ISO reference paper                |              |       |                                              |        |        |                           |        |        |                  |                 |
| O orange red#                                                                              | 0,608        | 0,338 | 30,13                                        | 16,75  | 2,28   | 47,94                     | 65,31  | 52,07  | 83,53            | 39              |
| L leaf green#                                                                              | 0,253        | 0,556 | 8,71                                         | 19,18  | 6,62   | 50,90                     | -62,96 | 36,71  | 72,89            | 150             |
| V violet blue#                                                                             | 0,216        | 0,140 | 7,17                                         | 4,65   | 21,41  | 25,72                     | 31,45  | -44,35 | 54,38            | 305             |
| achromatic colours: # calculated by linear chroma extrapolation in the CIELAB colour space |              |       |                                              |        |        |                           |        |        |                  |                 |
| W1 (ideal white#, D65)                                                                     | 0,320        | 0,339 | 94,41                                        | 100,00 | 100,83 | 100,00                    | -1,07  | 5,06   | 5,17             | 0               |
| W (ISO paper, D65)                                                                         | 0,320        | 0,339 | 83,68                                        | 88,60  | 89,47  | 95,41                     | -0,98  | 4,76   | 4,86             | 0               |
| N (black printing colour)                                                                  | 0,312        | 0,325 | 2,42                                         | 2,52   | 2,81   | 18,01                     | 0,50   | -0,46  | 0,69             | 0               |
| N0 (ideal black#, D65)                                                                     | -            | -     | 0,02                                         | 0,00   | 0,12   | 0,00                      | 0,84   | -1,68  | 1,89             | 0               |

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| Basic offset colour or<br>mixture colour for D65<br>ORS18a with Yw=88,6                    | chromaticity   |                | tristimulus values<br>(Y=88,6 for white D65) |                |                | adapted CIELAB data LAB*a |        |        |                    |                   | relative CIELAB data lab* |                 |                 |      |      |       |       |      |       |
|--------------------------------------------------------------------------------------------|----------------|----------------|----------------------------------------------|----------------|----------------|---------------------------|--------|--------|--------------------|-------------------|---------------------------|-----------------|-----------------|------|------|-------|-------|------|-------|
|                                                                                            | x <sub>a</sub> | y <sub>a</sub> | X <sub>a</sub>                               | Y <sub>a</sub> | Z <sub>a</sub> | L*a                       | a*a    | b*a    | C* <sub>ab,a</sub> | h <sub>ab,a</sub> | o* <sub>3</sub>           | l* <sub>3</sub> | v* <sub>3</sub> | n*   | c*   | h*    | e*    | u*   | t*    |
| three subtractive basic colours: printing colours acc. to ISO 2846-1                       |                |                |                                              |                |                |                           |        |        |                    |                   |                           |                 |                 |      |      |       |       |      |       |
| C cyan blue                                                                                | 0,161          | 0,228          | 18,79                                        | 26,62          | 71,32          | 58,62                     | -30,34 | -45,01 | 54,30              | 236               | 0,00                      | 1,00            | 1,00            | 0,00 | 1,00 | 0,656 | 0,669 | g67b | 0,50  |
| M magenta red                                                                              | 0,454          | 0,232          | 33,08                                        | 16,90          | 22,90          | 48,13                     | 75,28  | -8,36  | 75,74              | 354               | 1,00                      | 0,00            | 1,00            | 0,00 | 1,00 | 0,982 | 0,931 | b72r | 0,50  |
| Y yellow                                                                                   | 0,439          | 0,494          | 68,47                                        | 77,10          | 10,48          | 90,37                     | -10,26 | 91,75  | 92,32              | 96                | 1,00                      | 1,00            | 0,00            | 0,00 | 1,00 | 0,268 | 0,264 | j05g | 0,50  |
| three subtractive mixture colours: # DIN 33866-colours; ISO reference paper                |                |                |                                              |                |                |                           |        |        |                    |                   |                           |                 |                 |      |      |       |       |      |       |
| O orange red#                                                                              | 0,605          | 0,336          | 30,15                                        | 16,75          | 2,90           | 47,94                     | 65,39  | 50,52  | 82,63              | 38                | 1,00                      | 0,00            | 0,00            | 0,00 | 1,00 | 0,105 | 0,047 | r18j | 0,50  |
| L leaf green#                                                                              | 0,249          | 0,548          | 8,72                                         | 19,18          | 7,07           | 50,90                     | -62,83 | 34,96  | 71,91              | 151               | 0,00                      | 1,00            | 0,00            | 0,00 | 1,00 | 0,419 | 0,461 | j84g | 0,50  |
| V violet blue#                                                                             | 0,215          | 0,140          | 7,14                                         | 4,65           | 21,44          | 25,72                     | 31,10  | -44,40 | 54,22              | 305               | 0,00                      | 0,00            | 1,00            | 0,00 | 1,00 | 0,847 | 0,822 | b28r | 0,50  |
| achromatic colours: # calculated by linear chroma extrapolation in the CIELAB colour space |                |                |                                              |                |                |                           |        |        |                    |                   |                           |                 |                 |      |      |       |       |      |       |
| W1 (ideal white#, D65)                                                                     | 0,313          | 0,329          | 95,05                                        | 100,00         | 108,92         | 100,00                    | 0,00   | 0,00   | 0,00               | 0                 | 1,05                      | 1,05            | 1,05            | 0,00 | 0,00 | 0,00  | 0,00  | -    | 1,05  |
| W (ISO paper, D65)                                                                         | 0,313          | 0,329          | 84,21                                        | 88,60          | 96,48          | 95,41                     | 0,00   | 0,00   | 0,00               | 0                 | 1,00                      | 1,00            | 1,00            | 0,00 | 0,00 | 0,00  | 0,00  | r00j | 1,00  |
| N (black printing colour)                                                                  | 0,313          | 0,329          | 2,40                                         | 2,52           | 2,74           | 18,01                     | 0,00   | 0,00   | 0,00               | 0                 | 0,00                      | 0,00            | 0,00            | 1,00 | 0,00 | 0,00  | 0,00  | r00j | 0,00  |
| N0 (ideal black#, D65)                                                                     | -              | -              | 0,00                                         | 0,00           | 0,00           | 0,00                      | 0,00   | 0,00   | 0,00               | 0                 | -0,19                     | -0,19           | -0,19           | 1,19 | 0,00 | 0,00  | 0,00  | -    | -0,19 |

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BAM-test chart no. YE93; Colour image reproduction

input: w (-> w\*) setgray

Basis colours for offset print ORS18(a) according to DIN 33866-butput: no change compared to input