

## Technical Problems to write standard documents in the field of colour vision and image technology

**Problem:** For example the standard organisations ISO, CEN, DIN, and CIE use *anticopy software*. This software is *incompatible* with the EPS-vector graphic of the software *Adobe Illustrator*. However, this image software is used since 20 years in standard documents. How to revise these ISO documents?

**Table 1: Development of the ISO standard ISO 9241-306:2018. Quality with vector or pixel graphic, and without or with anticopy software.**

ISO document	graphic software	file size Word PDF	anticopy software	possible magnification	remarks quality
ISO/DIS 9241-306:2017	vector graphic	2MB 4MB	No	16x	very high quality
option used in secretariat	vector graphic	2MB 4MB	Yes	16x	colours disappear 1)
ISO IS 9241-306:2018	pixel graphic	60MB 15MB	Yes	1x	very low quality 2)
DIN print 9241-306:2018	pixel graphic	– –	Yes	1x	not acceptable 3)

1) about 30% of the colours disappear; 2) the output is defined by the software, and not by the vision properties of users.

3) 4 of 16 grey steps are not distinguishable. The minimum requirement is failed.