

VOC STATEMENT

VOC content of Durst UV and Durst LED Inks and associated flushing fluid

This note explains the VOC content of UV-curing Durst Rho and Durst LED Inks. No organic solvents are added to these UV/LED curing inks during manufacture. All of the potentially volatile components of the inks (UV/LED curing monomers) are selected to react into the ink film during the UV/LED curing process. Nevertheless, according to US definitions some VOC may be measurable depending on the specific UV/LED curing process conditions.

Typical VOC level by weight % of UV/LED-curing Ink Set		
EU definition (Council Directive 1999/13/EC)	US definition (ATSM D 5403 Test method A) See Note 1	US definition (EPA method 24) See Note 2
0%	Curing process dependent	Not applicable

Note 1: This test method is most appropriate for UV/LED-curing inks as it takes into account that the volatile materials in the inks are not generally released but fixed during the curing process. Under laboratory conditions, VOC levels of between 1% and 5% have been measured depending on the UV curing conditions. The % stated here is the "Total VOC" i.e. the total of "Processing VOC" (lost during the curing process) and the "Potential VOC" (available for release during the lifetime of the cured print). Tests on actual machine prints are recommended.

Note 2: This method is not suitable for classifying UV/LED-curing inks. It is, however, the most suitable for the flush solution which is not cured.

We stay at your disposal for any further questions.

Best regards,



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