

CORESTA Ignition Propensity Approved Monitor No. 2 (CM IP 2)

Use and Conditions

April 2015

This monitor test piece has been produced according to the provisions given in the International Standard, ISO 16055.

After manufacture, the monitor test piece has been analysed in a collaborative test organised by the CORESTA “Routine Analytical Chemistry Sub-Group” by laboratories each equipped to analyse according to ISO 12863. In 2014, 14 data sets were produced.

Ignition propensity experiments are typical types of proportion-based analysis with a binary response variable: Full Length Burning or not. Statistical analysis is performed assuming that the data generating process is binomial. A statistical analysis of the analytical results from the 2014 survey in accordance with ISO 5725, produced the following statistical results (a full statistical report may be obtained from CORESTA, 11, rue du Quatre Septembre, F-75002 Paris and on the CORESTA website).

Product	Global Mean [% FLB]	Repeatability std dev	Corrected between lab std dev	Reproducibility std dev	$2 \times S_R$	Repeatability COV	Reproducibility COV	Repeatability
		S_r	SLc	S_R	$2S_R$	CV_r [%]	CV_R [%]	r
CM IP 2	3.24	2.78	1.75	3.28	6.56	85.8	101.4	7.86

FLB: Full length burn

For single determinations of ignition propensity with CM IP 2 and on the basis of the collaborative test mentioned above, it means that values between the global mean value $\pm 2 SR$ or $3.24 \pm 6.56 \%$ are acceptable (0 and 4 cigarettes with full length burn out of the 40 taken from the ignition propensity test). If used as a monitor test piece with one replicate of 40 cigarettes, and assuming that a range of mean value $\pm 2SR$ is acceptable, one can expect values between 0 and 9.3% (or 0 and 4 cigarettes with FLB). Laboratories who obtain a value of zero for CM IP 2 will need to mitigate the issue (e.g. by measuring more replicates).

Values given in this table are based on the mean data from analysis of 40 test pieces.

No practical experience exists regarding the stability of the Ignition propensity results for the CM IP 2. It is recommended to have the packs stored unopened and below +4 °C.

Advice on the general use of the CORESTA monitor test piece can be found in ISO 16055.

The monitor is available in units of 5000 test pieces through:

Körber Technologies Instruments GmbH

Spare Parts Department
Schnackenburgallee 15
D-22525 Hamburg
Germany
Tel: +49 40 85 31 380
Fax: +49 40 850 56 00
e-mail: instruments@koerber.com

Borgwaldt KC GmbH

Spare Parts Department
Schnackenburgallee 15
D-22525 Hamburg
Germany
Tel: +49 40 85 31 380
Fax: +49 40 850 56 00
e-mail: BKC@borgwaldt.com