

DIN ISO 20774:2017-03 (E)

Cigarettes - Determination of carbon monoxide in sides tream smoke - Method using a routine analytical linear smoking machine equipped with a fishtail chimney (ISO 20774:2013)

Contents	Page
National foreword	3
National Annex (informative) Bibliography	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	7
5 Apparatus	7
6 Reagents	10
6.1 Standard gas mixtures	10
7 Sampling and preparation of cigarettes	11
7.1 General	11
7.2 Symbols	11
7.3 Preparation of the cigarettes for smoking	11
7.4 Selection of test portions of cigarettes	11
7.5 Marking the butt length	12
7.6 Conditioning	13
7.7 Preliminary tests before smoking	13
8 Preparation for the smoking run	13
8.1 Smoking plan	13
8.2 Preparation of mainstream and sidestream smoke traps and cigarette holders	13
8.3 Setting up the smoking machine	14
8.4 Assembly of fishtail chimney and sidestream smoke trap	14
9 Procedure for smoking run and collection of sidestream smoke	15
9.1 Preparation of fishtail chimney	15
9.2 Setting the fishtail chimney flow rate	15
9.3 Connection of sidestream smoke filter pad holders	15
9.4 Record the atmospheric conditions	15
9.5 Loading the cigarettes	15
9.6 Smoking the cigarettes	15
10 Determination of carbon monoxide	16
10.1 General principles	16
10.2 Calculation of CO yields using an off-line (bag collection) system	16
10.3 Calculation of carbon monoxide on an on-line (continuous flow) data acquisition system	17
11 Summary of other test sample calculations	18

12	Test report	19
12.1	General.....	19
12.2	Characteristic data about the cigarette.....	19
12.3	Data about sampling	19
12.4	Description of test.....	19
12.5	Test results.....	19
13	Repeatability and reproducibility	21
Annex A	(informative) Smoking plans	22
Annex B	(informative) Alternative procedure for CO calibration	26
Bibliography	27