

ISO 10882-2:2000-09 (E)

Health and safety in welding and allied processes_ - Sampling of airborne particles and gases
in the operator's breathing zone_ - Part_2: Sampling of gases

Contents	Page
Foreword.....	v
Introduction	vi
1 Scope	1
2 Normative references	2
3 Terms and definitions.....	2
4 Description of measurement methods	6
4.1 General.....	6
4.2 Direct reading electrical apparatus.....	7
4.3 Detector tubes.....	7
4.4 Indirect methods involving laboratory analysis	8
5 Requirements	9
6 Assessment strategy.....	9
7 Measurement strategy.....	10
7.1 General.....	10
7.2 Personal exposure measurements	10
7.3 Fixed point measurements	10
7.4 Selection of measurement conditions and measurement pattern.....	10
8 Sampling.....	11
8.1 Sampling position.....	11
8.2 Sampling equipment.....	11
8.3 Sample filtration.....	12
8.4 Multiple sampling.....	12
8.5 Volume of sampling line.....	12
8.6 Flow rate	12
8.7 Handling of temperature, pressure and humidity data	12
9 Measurement of individual gases and vapours.....	13
9.1 General.....	13
9.2 Ozone (0,01 ppm to 3 ppm).....	13
9.3 Carbon monoxide (3 ppm to 500 ppm)	13
9.4 Carbon dioxide (500 ppm to 10 %).....	14
9.5 Nitric oxide (1 ppm to 100 ppm) and nitrogen dioxide (0,3 ppm to 250 ppm)	14
9.6 Vapours.....	15
10 Recording of test data and presentation of results	16
Annex A (Informative) Measurement of individual gases and vapours	17
Annex B (informative) An example of a test report.....	18
B.1 Basic data	18
B.2 Process data.....	19
B.3 Sampling data and test results.....	20
Bibliography	21