

## Information on particulate matter PM<sub>10</sub>

### Limit values

	Averaging period	Limit value	Date by which limit value is to be met	Margin of tolerance
Limit value for the protection of human health	Calendar year	40 µg/m <sup>3</sup> PM <sub>10</sub>	1 January 2005	8 µg/m <sup>3</sup> in zones with time extension until 11.6.2011
Limit value for the protection of human health	24 hours	50 µg/m <sup>3</sup> PM <sub>10</sub> , not to be exceeded more than 35 times a calendar year	1 January 2005	25 µg/m <sup>3</sup> in zones with time extension until 11.6.2011

The sampling volume refers to ambient conditions in terms of temperature and atmospheric pressure at the date of measurements.

### Upper and lower assessment thresholds

	24-hour average	Annual average
Upper assessment threshold	35 µg/m <sup>3</sup> , not to be exceeded more than 35 times in any calendar year	28 µg/m <sup>3</sup>
Lower assessment threshold	25 µg/m <sup>3</sup> , not to be exceeded more than 35 times in any calendar year	20 µg/m <sup>3</sup>

## Data quality objectives

Data collection	Data quality objective
<i>Continuous measurement</i> Uncertainty Minimum data capture	25 % 90 %
<i>Indicative measurement</i> Uncertainty Minimum data capture Minimum time coverage	50 % 90 % 14 % (One day's measurement a week at random, evenly distributed over the year, or eight weeks evenly distributed over the year.)
<i>Modelling</i> Uncertainty Daily averages Annual averages	Not defined at present 50 %
<i>Objective estimation</i> Uncertainty	100 %

### Reference method for the assessment of the concentration

The reference method for the sampling and measurement of PM<sub>10</sub> is that described in EN 12341:1999 "Air Quality — Determination of the PM<sub>10</sub> fraction of suspended particulate matter — Reference method and field test procedure to demonstrate reference equivalence of measurement methods". The measurement principle is based on filter collection of the PM<sub>10</sub> fraction of ambient particulate matter and gravimetric mass determination.

### Legal basis

- Directive 2008/50/EC of 21 May 2008 on ambient air quality and cleaner air for Europe (OJ EC. L 152/1)
- 39th Ordinance Implementing the Federal Immission Control Act (Ordinance on Air Quality Standards and Emission Ceilings - 39. BImSchV)