

OZONE test sticks

Ozone is a colourless, toxic gas. It is irritating to eyes and mucous membranes and can cause respiratory complaints. An ozone content of $180 \mu\text{g}/\text{m}^3$ is considered as critical value above which sensitive persons should avoid stronger physical exertion.

The ozone values published by public media like press, radio or TV represent the ozone concentration in the vicinity of the measuring stations. However, actual ozone values in other locations can considerably deviate from these published values due to meteorological and chemical influences such as wind, solar radiation, exhaust gases from vehicles etc. For this reason a local measurement of ozone concentrations is recommended.

OZONE test sticks are a convenient test for **orienting** determination of the ozone concentration in air. Similar to **QUANTOFIX**[®] test sticks they consist of plastic strips 10 mm wide, onto which a test paper has been sealed at the lower end. This allows easy handling of the test.

Instructions for use:

Remove a test stick from the container just before the measurement, and tightly close the container again immediately. Do not touch the test field with your fingers. Place test stick in the open air, protected from wind, if necessary fix test stick with a piece of adhesive tape. After 10-min compare the test field with the colour scale on the container. If ozone is present, the test paper turns light yellow to brown.

Note:

1. Do not expose test sticks to direct sunlight.
2. A further discolouration of the test field after the reaction time is possible. However, this must not be considered for evaluation.
3. Never place a used test stick back into the container. This is also true when a measurement was negative, i.e. has not shown any ozone.

Interferences:

Other oxidizing reagents (e.g. chlorine) cause a similar colour change and simulate too high an ozone value. The measuring ranges are valid for a relative atmospheric humidity of 30 to 60%. Humidity values below 30% can cause lower ozone values, humidity above 60% higher values than actually present.

Storage:

Protect test sticks from sunlight and moisture. Store container in a cool and dry place.

Product data and ordering information

Type	Special test strips
Presentation	Box of 12 test strips
Color reaction	white to brown
Gradation	<90 · 90-150 · 150-210 · >210 $\mu\text{g}/\text{m}^3 \text{O}_3$
REF	90736

Under standard conditions (101300 Pa, 20°C):

90 micrograms per meter cube ---> 0,0451 ppm

150 micrograms per meter cube---> 0,0752 ppm

210 micrograms per meter cube ---> 0,105 ppm

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