Polytest

Order No. CH 28 401

Application Range

Standard Measuring Range:	Qualitative determination of easily oxidable substances.
Number of Strokes n:	5
Time for Measurement:	approx. 1.5 min
Color Change:	white → brown, green or violet (depending on substance)

Ambient Operating Conditions

Temperature:	0 to 50 °C
Absolute Humidity:	max. 50 mg H_2O / L

Reaction Principle

$CO + I_2O_5 \rightarrow I_2 + CO_2$

Cross Sensitivity

Based on the reaction principle, many easily oxidised compounds are indicated, several examples are shown below:

2000	ppm Acetone	10 ppm	Acetylene
50	ppm Ethylene	1 ppm	Arsine
10	ppm Octane	50 ppm	Benzene
500	ppm Propane	100 ppm	Butane
5	ppm Carbon Monoxide	10 ppm	Styrene
1	ppm Carbon Disulfide	20 ppm	Perchloroethylene
2	ppm Hydrogen Sulfide	10 ppm	Toluene, Xylene

Methane, ethane, hydrogen and carbon dioxide are not indicated.

Additional Information

If there is no reading, this does not always indicate that easily oxidizable substances are not present. In the individual case, the use of Dräger Polytest should be qualified by independent methods, particularly when combustible gases and vapors close to the LEL, or toxic substances are suspected.

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