

LÜTOLF OVEN APPARATUS

DETERMINATION OF THE DECOMPOSITION TEMPERATURE
EXOTHERMIC REACTION IN THE OPEN CUP

Model: LUT-2

ver. 2.0, 2016

STANDARD REFERENCES:

- VDI 2263 part 1, point 1.5.1 – Exothermic decomposition, Testing as per Lutolf.

AVAILABLE TESTS:

- Dynamic temperature test – each substance is heated up to 350°C, rate 2,5°C/min
- Static - isoperibolic temperature test – 8h test in constant temperature
- Amount of gases during thermal decomposition is measured – quantitative test
- Gas flammability test - gloving platinum wire (1000°C) is used to ignite the gases produced during sample heating

LÜTOLF OVEN SPECIFICATION:

Body	stainless steel
Aluminum block	anodized
Thermocouples	Inconel® shielded silicone cables type K 6x - in sample glass tubes 1x - oven temp. control
Electric heater	long life design Kanthal® wire applied
Temperature	up to 350°C
Power supply	110 or 230VAC 800 W

TEMPERATURE CONTROL & DAQ BLOCK:

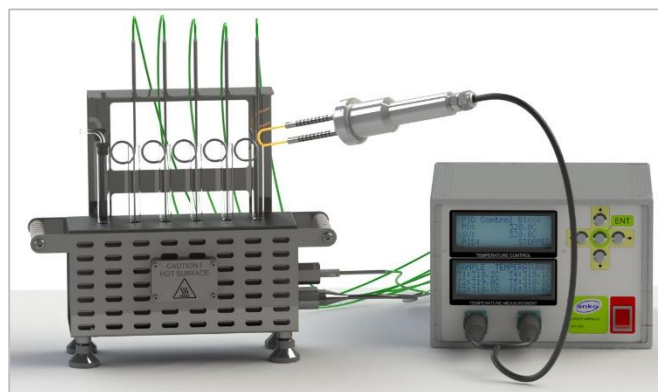
Oven temperature	PID controller
Platinum wire out.	precision current control
DAQ card	7-ch temp. registration
Navigation keys	auto-tuning temperature adjustment
USB socket	PC control

PLATINUM WIRE IGNITION TOOL:

Temperature	constant 1000°C
Handle	heat resistant
Leads	stainless steel

ACCESSORIES & SERVICES:

Glass test -tubes	24 pcs.
Manuals :	instruction/maintenance installation guide.



LÜTOLF OVEN - designed to observe the lowest temperature at which tested substance shows an exothermic reaction. The thermal stability of chemical substances is usually investigated in the presence of air (under defined oxygen-lean conditions). Sample of material is heated up to 350°C. Linear temperature increase rate is 2,5°C/min. Measured temperature is compared to the temperature of inert reference material (graphite).

ANKO ReqTemp® SOFTWARE :

- Temperature registration - long periods.
- User defined sampling speed - from 1s.
- Test file export to txt format - available.
- Screen/area enlargement of selected data.
- Test protocol & diagram printing.
- Data field for test/sample description.

ADDITIONAL OPTIONS:

- Calibration - accredited laboratory certificate
- Installation assistance and training on-site

The information given in this document represents the state of engineering at the time of publishing. We reserve the right to make modifications to above specifications.