

MIT APPARATUS

DETERMINATION OF THE MINIMUM IGNITION TEMPERATURE
OF DUST CLOUDS - A GODBERT-GREENWALD APPARATUS

Model: MIT 3

ver. 3.1, 2017

STANDARD REFERENCES:

- EN 50281-2-1 : Methods for determining the minimum ignition temperatures of dust.
Method B: Dust cloud in a furnace at a constant temperature.
- ASTM E1491-06: Standard test method for minimum autoignition temperature of dust clouds.
- IEC 61241-2 replaced by ISO/IEC 80079-20-2:2016.
Electrical apparatus for use in the presence of combustible dust. Test methods: Methods for determining the minimum ignition temperatures of dust.
- ISO/IEC 80079-20-2:2016 Explosive atmospheres. Material characteristics. Combustible dusts test methods



HEATING PLATE BLOCK SPECIFICATION:

Ceramic tube	high-tech temperature block Kanthal® heating wire high quality long life heater
Body	stainless steel
Ceramic tube thermocouples	type K Inconel shield silicone cables
Dust dispersion nozzle	acc. to standard dimensions ANKO design nozzle
Remote control	dust injection control
Temperature	up to 1000°C
Power supply	110 or 230VAC 800 VAC

TEMPERATURE CONTROL BLOCK:

Temperature controller	PID type
LED thermometer	ceramic tube temp.

ACCESSORIES:

Glass tubing	2
High temperature gaskets:	100
Type K thermocouple Inconel® shielded, isolated	2
Instruction manual	
Installation guide	

ADDITIONAL OPTIONS:

Calibration - accredited laboratory certificate
Training
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.