

BAM OVEN APPARATUS

MAIT - MINIMUM AUTOIGNITION TEMPERATURE
OF A DUST CLOUD

Model: BAM-2

ver. 2.2, 2020

STANDARD REFERENCES:

- **VDI 2263** part 1, point 2.6.1.1 Ignition Temperature. BAM oven.
- **ASTM E1491-06** Standard test method for minimum autoignition temperature of dust clouds.
- **EN ISO/IEC 80079-20-2** Explosive atmospheres. Material characteristics. Combustible dust methods.



BAM OVEN – is a 0.35-L oven designed at BAM, Germany.

MAIT temperature is the lowest temperature of the heated internal chamber (deflecting surface) at which the dust blown into the oven ignites.

Ignition of the dust is defined as the observation of flame exiting the flap at the rear of the oven.

HEATING PLATE BLOCK SPECIFICATION:

Heating tube	high-tech temperature block long-life ceramics Kanhtal® heating wire
Material	stainless steel
Heating block thermocouples	2x type K Inconel shield silicone cables
Dust dispersion nozzle	acc. to standard dimensions ANKO design nozzle
Temperature	up to 600°C
Power supply	110 or 230VAC 1200 VAC

TEMPERATURE CONTROL BLOCK:

Temperature controller	PID type
Remote control	dust injection control

ACCESSORIES:

Mirror	for flame observation
Rubber bulb:	for dust injection
Dispersion accessories	1 set
Type K thermocouple	test thermocouple Inconel® shielded, isolated
Manual	User & Installation
Cleaning acc.	1 set

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.