

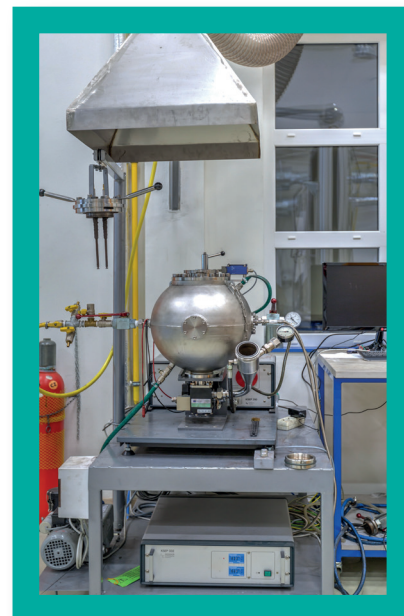
# Explosion Autoclave 20 l KSEP

## SPECIFICATIONS

The VA-20 explosion autoclave has a combustion chamber volume of 20 l and is primarily intended for determining the explosion parameters of combustible dusts. Alternatively, the explosion parameters of the gases, or a combination of flammable dusts and gases, can be determined. Explosion parameters can be determined under standard conditions.

## OVERVIEW OF MEASURABLE PARAMETERS/ OUTPUT INFORMATION

Lower explosive limit LEL, upper explosive limit UEL (gases) maximum explosion pressure, maximum rate of explosion pressure rise, cubic constant, limiting oxygen concentration LOC.



## MEASURING METHODS

*Flammable dusts:*

ČSN EN 14 034 - 1 - Determination of explosion characteristics of dust clouds - Part 1: Determination of the maximum explosion pressure  $p_{\max}$  of dust clouds;

ČSN EN 14 034 - 2 - Determination of explosion characteristics of dust clouds - Part 2: Determination of the maximum rate of explosion pressure rise  $(dp/dt)_{\max}$  of dust clouds;

ČSN EN 14 034 - 3 - Determination of explosion characteristics of dust clouds - Part 3: Determination of the lower explosive limit LEL of the dust clouds

ČSN EN 14 034 - 4 - Determination of explosion characteristics of dust clouds - Part 4: Determination of the limiting oxygen concentration LOC of the dust clouds.

*Alternatively flammable gases:*

ČSN EN 15 967 - Determination of maximum explosion pressure and maximum rate of explosion pressure rise of gases and vapours;

ČSN EN 1839 - Determination of explosion limits and the limiting oxygen concentration (LOC) for flammable gases and vapours.

## TYPES OF SAMPLES SUITABLE FOR ANALYSIS / MEASUREMENT CONDITIONS

It is possible to determine the explosion parameters of flammable dusts, alternatively flammable gases, or their combinations. Measurements can be performed under standard laboratory conditions.