

# Inhibition and extinction of coal dust and methane explosions

## U.S. Dept. of the Interior, Bureau of Mines - Active explosion barrier performance against methane and coal dust explosions

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Coal mines and mining -- Fires and fire prevention. Inhibition and extinction of coal dust and methane explosions

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8708.  
Report of investigations (United States. Bureau of Mines) ;  
8708  
Report of investigations ; Inhibition and extinction of coal dust and methane explosions  
Notes: Bibliography: p. 27-29.  
This edition was published in 1982

Tags: #Study #on #the #inhibition  
#influence #on #gas #explosions #by  
#metal #foam #based #on #its #density  
#and #coal #dust

### Advanced Mine Ventilation

A general purpose work glove would be constructed of cotton canvas reinforced with leather.

### Fires and Explosions in Mines

Device has pneumatic cartridge coaxially located in perforated intermediate chamber which is coaxially located in its turn in bin; it is cone-shaped or cylindrical in form. On the outline of sliding coupling there made



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are holes openings interconnected to external environment atmosphere with possibility of their being aligned with radial channels at movement of sliding coupling to the corresponding value under action on the receiving shield of air blast wave external force.

### Fires and Explosions in Mines

Cutting machines that remove coal with rotating drums studded with picks are the principal sources of dust in mechanized mining operations. To compare, 28 deaths were reported in the US in the same year.

### Method to prevent explosion of methane

In none of the tests did the flame progress beyond the barrier position. SUBSTANCE: method involves closing borehole cross-section with extendable means; arranging predetermined volume of non-combustible material above the means, wherein the volume is determined from a given relation; discharging all non-combustible material in the borehole at a time and further distributing portions of non-combustible material having volumes of not less than volume of incoming water. Transactions of the Institute of Mining Engineers 60:222-234.

## **CDC**

Journal of Loss Prevention in the Process Industries, 19 16 : 729—735.

## **Real**

SUBSTANCE: method involves insulation of mine workings, increase of flammable gases concentration in them to the values exceeding upper explosion limit of flammable gases, creation of low excess pressure of flammable gas in comparison to atmospheric pressure on the surface. The magnitude of the financial investment and the opportunity to achieve the highest levels of profitability increases the pressure on everyone employed at the mine.

## **Inhibition and extinction of explosions in heterogeneous mixtures**

The normal production of carbon monoxide in coal mines.

## **Real**

The mass extinction coefficient of the three sample materials tested in this study were in the range of 0.

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