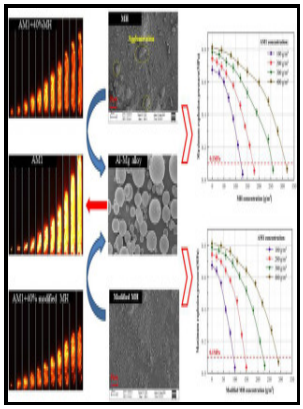
Inhibition and extinction of coal dust and methane explosions

U.S. Dept. of the Interior, Bureau of Mines - Research on N2



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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: #[PDF] #Flammability #of #methane, #propane, #and #hydrogen #gases

Experimental Study on Characteristics of Methane

Common names and health effects of hazardous gases occurring in coal mines Gas Common name Health effects Methane CH 4 Fire damp Flammable, explosive; simple asphyxiation Carbon monoxide CO White damp Chemical asphyxiation Hydrogen sulphide H 2S Stink damp Eye, nose, throat irritation; acute respiratory depression Oxygen deficiency Black damp Anoxia Blasting by-products After damp Respiratory irritants Diesel engine exhaust Same Respiratory irritant; lung cancer Radon is a naturally occurring radioactive gas that has been found in uranium mines, tin mines and some other mines. In view of the above situation, this study proposed a N 2-inhibitor-water mist NIWM technology for fire prevention and extinguishing.

Coal Dust and Gas Explosion Suppression by Barriers

Under constricting conditions such as blockage or restriction of the airway, both methane and coal dust explosions have the potential to accelerate and transition into the most severe situation, called a detonation.

Inhibition and extinction of explosions in heterogeneous mixtures

Carbon monoxide can be significantly reduced with a catalytic converter.

Synergistic inhibition effect on methane/air explosions by N2

The increase in the gas-liquid mass flow ratio can reduce the water mist particle size, but there is a certain threshold. We also have witnessed times when this country rolled up its sleeves and went to work with a steely determination to improve workplace conditions. All miners should be warned once a fire has been detected.

Advanced Mine Ventilation

The jets are then moved to minor gas-separation units having lesser end sections through branch lines.

Health and environmental impact of the coal industry

In this study, a new type of N 2-inhibitor-water mist NIWM technology was proposed to resolve the problem of fire prevention and extinguishing in the goaf of coal mine.

Research on N2

National Fire Protection Association NFPA.

Inhibition and extinction of explosions in heterogeneous mixtures

Combustion and Flame, 105 4 : 528—540. Another important consideration for all shop areas is that they be vented directly to the air return, thus limiting the spread of products of combustion from any fire. Afterwards the conclusion is made on outburst hazard of this section in the coal bed.

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