

Frictional ignition with coal mining bits

U.S. Dept. of the Interior, Bureau of Mines - Frictional ignition with coal



Description: -

- Methane -- Combustion.

Friction.

Coal-cutting bits -- Testing. Frictional ignition with coal mining bits

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9251.

Information circular (United States. Bureau of Mines) ;

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Frictional Ignition Events

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Frictional ignition of methane by continuous

The methane-air mixture ignited in each of these five tests, with an average of about 30 strikes to ignition. The Pittsburgh Research Laboratory PRL of the National Institute for Occupational Safety and Health conducted a full-scale study to answer this question.

Frictional ignitions at a Queensland underground

In underground coal mines, special attention must be paid to diluting methane as it is flammable and explosive under certain conditions. A small wear flat forms a small hot spot, which does not give ignition, while a large wear flat forms a large hot spot, which gives ignition. Furno, published by Unknown which was released on 1989.

NIOSH TIC

The hot spots then can ignite the methane-air environment. Available in PDF, ePub Download or read online List of Bureau of Mines Publications and Articles with Subject and Author Index written by United States. Frictional ignition with a minim bit always involves a worn bit having a wear flat on the tip of the bit.

Mine ventilation networks optimized for safety and productivity

None of these materials caused ignition of the methane at any of the three test speeds 400, 600, and 900 sfpm, but the above materials do not have sufficient strength to hold a carbide tip during coal-cutting. Canisters are enclosed in specially designed baffled mufflers which serve to abate high impulse noise and afford protection against roof falls and other physical abuse. The atmosphere mixture was 7 vol pct natural gas in air.

Frictional ignition with coal mining bits : Courtney, Welby G : Free Download, Borrow, and Streaming : Internet Archive

Abstract The publication reviews recent U. The device, developed by the Industrial Safety Division, is designed to be installed on the boom of a continuous mining machine and would function to suppress frictionally induced methane ignitions in the face areas of underground coal mines. Get Reduction in Frictional Ignition Due to Conical Coal cutting Bits Books now! The hot spots then can ignite the methane-air environment.

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