

High-Temperature Resistant Cold Passage for Mining



Overview

In the present research, an energy-saving and efficient cooling scheme for high-temperature working faces in deep mines was proposed. For this purpose, the previous theoretical analysis and field measurement.



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In the present research, we proposed a scheme to address the issues of severe heat damage, high energy consumption, low cooling system efficiency, and wastage of cold capacity in mines.



ABSTRACT: This paper presents an overview of the design of the ventilation, cooling and refrigeration re-quirements for mining activities at Gold Fields Driefontein Mine No.9 Shaft for mining at a depth of ...



In order to address the issue of high temperatures and thermal damages in deep mines, the factors causing downhole heat damage at high temperatures were analyzed, the mine ventilation ...



This study is focused on fully-mechanized working faces that adopt the longwall mining method along strike and U-shaped ventilation in China with high temperatures (above 30 °C).



To elucidate the seasonal variations of environmental temperature through field measurements, we selected a high-temperature working face in a deep mine as our engineering background.

	<p>With the increasing depth of metal mine mining, the heat damage in deep mine tunneling roadway has become more and more serious, in order to effectively reduce the temperature in high ...</p>
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	<p>Attributes Other, Construction works, Energy & Mining, Ports, Coal, MineApplicable Industries Anti-Bacterial, Anti-static, Anti-Uv, Breathable, Durable, easy cleanliness, Fire Resistant, Heat Resistant, ...</p>
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	<p>For more than a century, Howden, a Chart Industries Company, has supplied ventilation equipment to every major mining company in the world, from frozen sites in the Arctic and the hottest nations in ...</p>
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	<p>KTI Cold Mine offers solutions that have been developed for use in mining and meet the enormous demands. In order to achieve proper cooling, different solutions can be used, tailored to the ...</p>
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	<p>The results show that the mobile cooling equipment is capable of feeding the desired temperature of the cooling air into deep mine, and with flexible, convenient, efficient, and cost effective.</p>
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	<p>For high-temperature and high-humidity deep mines, achieving high refrigeration efficiency, low energy consumption, and cost-effective investment requires the further development of advanced ...</p>
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Contact Us

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