

Product Use Note – Drägersorb®

Safe breathing in enclosed spaces until help arrives

Mining accidents shock the public again and again:

- Frankfurter Allgemeine (March 21, 2011) 24 miners continue to be trapped in a Pakistani coal mine after explosions on Sunday
- Spiegel-online (April 11, 2012): Nine buried miners in Peru rescued after six days
- Spiegel-online (May 22, 2012): Mining disaster in Zimbabwe, 65 trapped miners are waiting for rescue



Shelters and rescue chambers offer very good chances of survival in mines until help can arrive. In these spaces, a large number of people can wait for third party rescue over a longer period of time. The breathing air in these facilities has to be purified from carbon dioxide, amongst other things, to extend the duration of use. Air purification systems containing Drägersorb® are perfectly suited for this task.

Drägersorb® is available in many variants adapted to the customer's needs, either as loose bulk material for

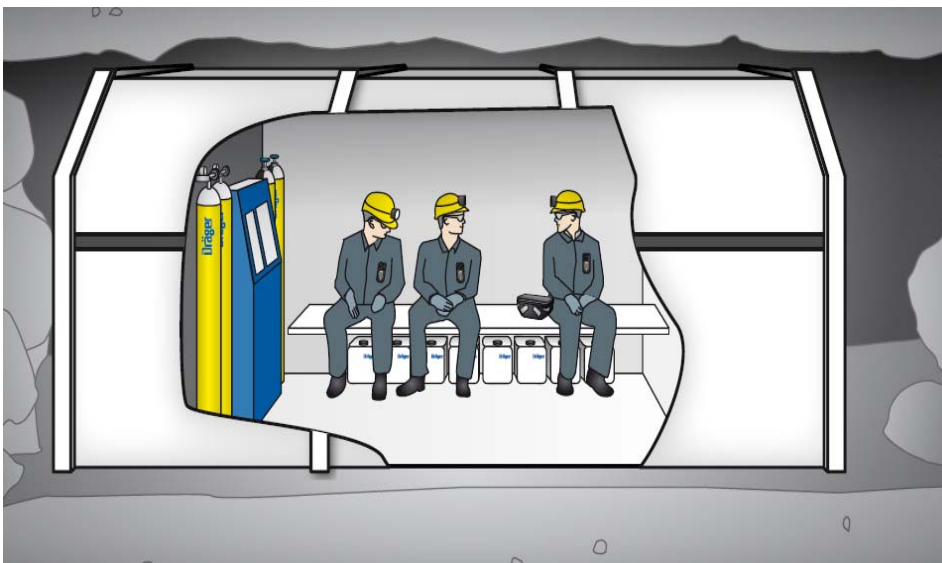
refill systems or in cartridge form.

Normal breathing air contains approx. 0.04 Vol. % CO₂, while exhaled air contains approx. 4 Vol.% CO₂.

Headaches and dizziness start to occur when air is inhaled with a concentration of approx. 5 Vol.% carbon dioxide. Carbon dioxide concentrations of 8 Vol.% result in death in a time period of 30 to 60 minutes.

Chemically, Drägersorb® is calcium hydroxide (Ca (OH)₂) but it is commonly referred to as soda lime. Compared to lithium hydroxide (LiOH,) it is less

corrosive and therefore safer to handle, especially when the practical cartridge form is used. Thanks to its pellet form, the dust exposure while filling a refill system is very small. A color indicator makes it possible to see from the outside when the adsorption capacity of Drägersorb® is exhausted. On top of the high adsorption power, Drägersorb® also has an extremely good price performance ratio.



YOUR BENEFITS AT A GLANCE:

- Can be integrated into existing systems
- Canister form is easy to use
- Reduced operational costs thanks to ...long service life.

MARKET SEGMENT:

Mining
Chemical industries

Final comment:

All information in this Product Use Note has been compiled to the best of our knowledge. This document does not represent any obligation or warranty. The information and data given in this Product User Note are subject to technical revisions and may not always correspond to the current situation.

The instructions for use supplied with the products shall apply exclusively for the use of Dräger products.

These must be read and strictly observed when using such products.

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