

# KoolKap® Down-Under Bags

## Why choose KoolKap® Down-Under Bags?

KoolKap® Down-Under bags are a self inflating bag that, when activated and lowered or dropped down a hole, will seal off the hole giving you an effective deck for loading explosives and/or stemming.

They save you time and money. When using air decking for pre-splits, you can significantly reduce your use of explosives. You'll also reduce noise and ground vibration, backbreak and backshatter by reducing excessive powder factors.

You can also use bags to block off wet and dewatered holes, eliminating the need for using expensive and less effective emulsions. They are also great for standing off coal beds to stop coal shock and for decking holes that have varying layers of rock hardness, so you don't waste energy on already soft ground.

### RELIABLE

KoolKap® Down-Under bags have the lowest failure rate of any blast bags on the market. A failure costs you time and money and increases the risk of injury. The patented activator cap cools during operation, reducing misfire and making them ideal for both hot and cool conditions.

KoolKap® Down-Under bags have a surface failure rate of less than 1%, and we are constantly striving for 0%. They have a 99.5% hole inflation success rate.

KoolKap® Down-Under bags have been tested at -20°C in a Colorado Winter, and up to 65°C in the Australian Summer, making them ideal for all conditions.

You need a blasting product you can rely on, because you can't afford to have your time wasted plugging the same hole twice.

### FLEXIBLE

KoolKap® Down-Under bags are made to meet any environmental or usage requirements. They are available in sizes from 100mm to 381mm (4" to 15").

They are supplied in a ready to use package, which can be modified to suit any needs:

- Faster expansion time for shallow blasting
- Slower expansion time for deeper blasting
- "Top-first" expansion for quick gripping
- Extra weight for deep hole plugging
- Small diameter bags ideal for use in underground and quarrying applications

Whatever your blasting requirements, KoolKap® Down-Under blast bags will be delivered to you, tailored to your site conditions.

# KOOLKAP®

DOWN-UNDER BAGS

EXCITING  
**NEW**  
TECHNOLOGY

FOR GREATER  
STRENGTH  
AND COST-  
EFFECTIVENESS

Zero  
HFC's



## What next?

Ready to try this exciting new technology for yourself?

Contact us on +61 7 3376 5999 or [sales@prpolymers.com](mailto:sales@prpolymers.com) to organise a trial batch at your site or request more technical information.

[prpolymers.com](http://prpolymers.com)

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# KOOL KAP®

## DOWN-UNDER BAGS

### SAFE

KoolKap® Down-Under bags are safe. They carry the ANSTO certificate of pressure conformity to AS2278-2000, have a GREEN Chem alert report and are classed 2.2, non-flammable by the Department of Transport. KoolKap® Down-Under bags are purposely designed with a propellant that does not perform as an ideal gas, hence avoiding all the problems associated with exploding gasses under pressure. Where other bags have a tendency to leak at high temperatures, the revolutionary patented process of the KOOL KAP® system ensures KoolKap® Down-Under bags not only remain safe at high temperatures, they stay reliable.

The KOOL KAP® system means you reduce the risk of injury and product failure.

### DURABLE

KoolKap® Down-Under bags are tough and are proven to withstand pressure far in excess of what is required in normal drilling and blasting conditions.

The two inner bags are highly pressure resistant and ensure optimal pressure is maintained. The outer bag is chip resistant, avoiding punctures, and provides high friction to avoid slipping after the hole is loaded.

Great care has been taken to ensure that the materials used for the bags meet the required standards for strength and yet still remain translucent so you can see what you are doing when activating the bag. You can be sure they will deliver no matter what conditions you are operating in.

### EASY RISK ASSESSMENT

KOOL KAP® carries the prestigious GREEN Chem Alert status which means no Personal Protective Equipment (PPE) is required.

No other gas bag has this rating as well as an Australian Nuclear Science and Technology Organisation (ANSTO) Certificate of Conformity to the Australian Standard AS2278-2000 for aerosol burst strength.

Test Report 9314 date 5th March 2003 is available upon request.

### USED IN ALL CONDITIONS

KoolKap® Down-Under bags come in a variety of types and sizes to suit holes of different diameter for different condition; having a range of inflation options depending on your requirements.

For example; if you are drilling deep angled and /or wet holes you may require an additional weight to help get them down the hole fast enough or you may need a faster inflation time for when you are using bags to support stemming near the top of the hole.

With KoolKap® Down-Under bags you can choose from a selection of KoolKap® bags for any conditions; from hot-holes to underwater holes.



### ENVIRONMENTALLY SAFE

KoolKap® Down-Under bags have been recognised by the Aerosol

Associations of Australia and New Zealand for their contribution to environmental sustainability in the aerosol industry. At the Aerosol Industry Awards 2005, KoolKap® Bags were awarded the sought after "Award for Environmental Achievement and Sustainability".

KoolKap® Down-Under bags are recognised as the most reliable, flexible, robust and safe product available on the market.

*KoolKap® Down-Under bags use a patented process of dissolving Dimethyl Ether in an aqueous solution to deliver a non-flammable product. Combined with a unique and patented actuator cap, the result is a gas bag with unparalleled performance and with real environmental and safety advantages over alternative technologies which use propellants with a high Global Warming Potential.*

**Award Citation Aerosol Industry Awards 2005**

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# Globally Patented Innovations In Technology

## SOLD AROUND THE WORLD

From the United States to Chile and through the Asian Archipelago to Australia, KoolKap® Down-Under bags are sold all over the world. Enquire about a distributor near you.



### ANTI-MISFIRE SYSTEM



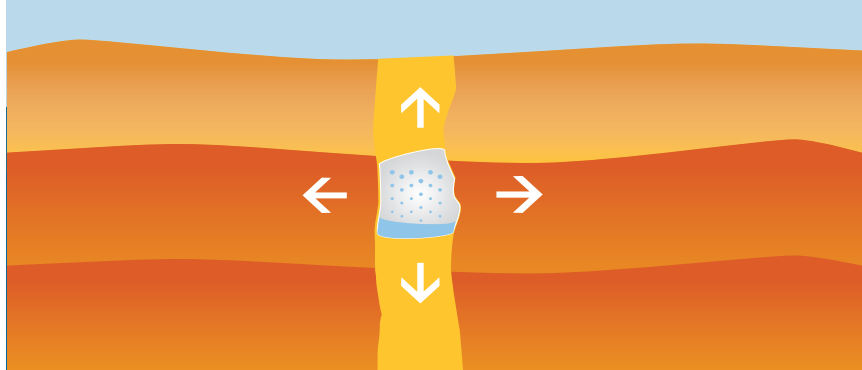
#### KOOLKAP® DOWN-UNDER BAGS UTILISE SMART TECHNOLOGY A PATENTED SYSTEM TO PREVENT YOUR BAGS FROM MISFIRING.

Normally in the hot environments where Bags are typically used, plastic components of other brands of Bags will get soft and become prone to mis-fires when actuated.

KoolKap® Down-Under bags utilise a patented system that vastly reduces the incidence of mis-fires.

When the KOOL KAP® Bag actuator is depressed, an adiabatic gas expansion process occurs that absorbs heat from the environment, thereby cooling down the plastic actuator device. This translates to greater effectiveness and less expense.

### ANTI-SLIPPAGE SYSTEM



#### KOOLKAP® DOWN-UNDER BAGS USE SELF-REGULATING TECHNOLOGY TO EXPAND AND FIT FIRMLY INTO ANY HOLE. THIS MEANS LESS SLIPPAGE PROBLEMS.

Holes are not perfectly cylindrical. They differ internally in shape and form and this has meant that other brands of Bags have been prone to slippage as the aerosol is expended within the bag.

KoolKap® Down-Under bags utilise a patented anti-slippage mechanism that means your bags will deform and brace within nonuniform holes.

KoolKap® Down-Under bags self-regulate the expansion process by liberating vapour from the bottom of the bag during the final stages of inflation. This means that because of its constant pressure, the bag reaches a state of dynamic equilibrium allowing it to contort to the shape of any hole, thereby providing a good tight fit and avoiding slippage problems.

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