

# ArcticBlast



## Arctic Blast Equine Cooling and Compression Bandage

Arctic Blast compression bandage is used after a soft tissue injury to reduce swelling and reduce pain, it works by decreasing blood flow to the injured tissue and reducing inflammation.

It's easy to use, simply open the foil pouch, wring excess from the compression bandage back into the foil pouch, reclose the pouch so that the Arctic Blast does not evaporate. Then simply wrap bandage around the injured area, with a 50% overlap, as you normally would.

When dry, recharge the compression bandage with Arctic Blast Recharge and repeat treatment.

"Last Saturday, after racing, one of our horses came-up very tender in the front legs. I used Arctic Blast immediately and within hours there was no sign of tenderness, the difference it made to her recovery time was amazing. I have recommended Arctic Blast to my vet".

**Graham Richardson**, Trainer, Matamata, New Zealand.

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## MSDS – Safety Data Sheet

1. Identification of the product

Product Name: Arctic Blast

Use of the substance/ preparation: Coolant solution

Indication: For use on soft tissue injuries, sprains, strains and bruising

Contra-indications: Irritated or inflamed skin

Side effects: Transient stinging on cuts/ abrasions, may be an irritant to inflamed skin

or exudative lesions. Consumption can cause dizziness, inebriation or respiratory paralysis.

2. Composition/information on ingredients

Chemical characterisation: Proprietary solution in water

Product name: Arctic Blast

CAS number: N/A

Hazardous ingredients:

Ethanol less than 24%

CAS No: 64-17-5

Menthol less than 2%

CAS No: 89-78-1

3. Hazards identification

Not classified as dangerous according to EC Directives

IATA Classification: Non hazardous, Special Provision A58 applies

Warning: External use only, avoid contact with eyes, wash hands after use

4. First aid measures

Eye contact: Irrigate thoroughly with water, obtain medical attention

Ingestion: Drink plenty of water, obtain medical attention

Skin contact: Wash off skin with soap and water

5. Storage

Store at room temperature, below 30C/86F degrees, protect from direct sunlight

Keep out of reach of children

Products: Arctic Blast

Equine Bandage 10cm x 2.5m (4in x 8ft)

Recharge 500ml (17.6 oz UK)

# ArcticBlast

## Arctic Blast Equine Instant Cooling Rugs & Bandages

Safely reducing your horse's body temperature by up to 10°C in minutes



- Reusable
- Speeds recovery
- No refrigeration required
- Eliminates muscle soreness
- Draws heat out faster

# Arctic Blast

## Arctic Blast Equine Instant Cooling Rugs & Bandages

### Arctic blast and Equine Flu

“Gala of the Royal Horses” use Arctic Blast on Appollo to treat El Fever. When Equine Influenza was identified in El Cabello Blanco’s, NSW, Australian stables last month, it was our worst nightmare, to see our magnificent Lippizaners, Andalusians, Friesans and Arabians suffering from El was heart wrenching. Although our 30 horses had passed the worst of El when we received our Arctic Blast Instant Cooling Rug and Recharge, Appollo a wonderful Freisian was still suffering from high fevers and complications. In conjunction with advice from our vet we used Arctic Blast as instructed, Appollo’s temperature was definitely brought down quickly each time we used it. As a result Appollo was more comfortable and settled.

We will continue to use Arctic Blast to cool our horses in the future.

### Arctic Blast and Racing

Cooling and compression products are permitted under the rules of racing.

We have found in New Zealand that the use of the Arctic Blast rug before a race can have a very calming effect on highly strung or nervous horses who may otherwise burn a lot of energy before a race and reduce their chances of winning.

Generally the blanket will be used post race to cool the horse down and can be kept on during the journey home. It can be used in conjunction with, or instead of, hosing down after a race. In some cases horses are hosed down for up to half an hour, Arctic Blast rug will do this job for you for £2.50 based on the cost of a 500ml refill which would represent a saving when set against the half hour of labour used to hose the horse down. It also allows the team to head home earlier perhaps before the post meeting traffic jam.

If the horse pulls up sore after a race then this is the ideal time to apply an Arctic Blast bandage as it will reduce recovery time. The bandage should be recharged every two hours for an even speedier recovery. Some horses will habitually take longer to recover from a race. We have evidence of such horses reducing their recovery times by a day and thus being able to train far sooner after a race or event.

“Thank you for the Arctic Blast samples and allowing us to trial them with our large stable of racehorses. All I can say is Arctic Blast is fantastic and you’re not getting them back. We will definitely be using a lot of Arctic Blast from now on! I am so impressed please make contact with my Equine vet and introduce him to the benefits”.

**Paul Harris**, Trainier Rangiora, New Zealand.

### The dangers of horses overheating

Everyone finds the high temperatures of summer bothersome—even horses! Strenuous exercise in hot, humid weather can spell trouble for some horses, so owners should learn how to handle heat-related problems. Dr. R. Dean Scoggins, equine Extension veterinarian at the University of Illinois College of Veterinary Medicine in Urbana, says, “The most serious heat-related problem seen in horses is anhidrosis, which is the inability to sweat.” When horses work hard in hot, humid conditions, the sweat glands can become overtaxed and unable to excrete fluids. Sweating is the body’s primary means of getting rid of extra body heat, and when an animal is unable to sweat its temperature can rise to dangerous levels. This problem is not often seen in draft horses, but is common in thoroughbreds, Arabian horses, quarter horses, race horses and trail horses. The normal temperature for a horse is 100 degrees Fahrenheit. When its temperature reaches 104 or 105 degrees Fahrenheit, the horse is considered to have heat stroke, which is an accumulation of body heat due to a failure of the body’s cooling mechanisms. When its temperature reaches 107 or 108 degrees Fahrenheit, neurological damage or death can occur. The first sign of heat stroke is that sweating stops. Under normal circumstances, the body of a horse that is working hard should be covered with sweat. When anhidrosis occurs, there may be some sweat on the sides of the neck and between the legs from friction, but the rest of the body will be dry. Horses who are suffering from this problem will breath more heavily than normal, and although their bodies are not designed to breath through their mouths, they may try to do so.

### How Arctic Blast Rugs cool your horse

Thermoregulation in horses is primarily dependent on evaporative heat loss from sweating, however, in high ambient temperatures, or prolonged exercise, horses can dissipate up to 1 litre of sweat a minute, compromising the sweating process and causing body temperature increases of up to 5C. To prevent the risk of your horse collapsing aggressive cooling is recommended by experts.

Invented and Patented in New Zealand, with Patent protection applied for Internationally, Arctic Blast Equine Instant Cooling Rug accelerates evaporative cooling, safely reducing your horses body temperature by up to 10C in minutes. Meaning your horse is less likely to suffer heat stress & muscle injuries, avoids dehydration, and recovers from exercise more quickly.

### How to use Arctic Blast Cooling Rug

**Arctic Blast Equine Instant Cooling Rug is simple to use.**

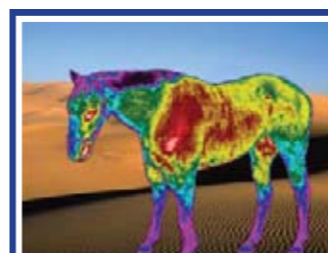
The Instant Cooling Rug comes in a foil cooler bag, simply add 250ml of Recharge until it is wet through, the Instant Cooling Rug is now activated, and ready to put on your horse. When cooling is completed, place the Instant Cooling Rug back in the cooler bag until it is next needed.



Similarly, Arctic Blast Cooling Compression Bandages, like the Instant Cooling Rug, are reusable, do not require refrigeration, and safely draws heat out faster by using evaporative cooling. These are ideal for treating soft tissue injury - swelling, inflammation, bruises and strained tendons or ligaments.

Of importance, is the fact that both Arctic Blast Instant Cooling Rug and Cooling Compression Bandage comply with the Rules of Racing.

Ideal for use in hot climates, after exercise/ competition, or when transporting your horse – in short, anytime your horse is at risk of heat stress.



Without Arctic Blast



With Arctic Blast

### What’s the physiological difference between using ice/gel packs & Arctic Blast?

When an ice/gel pack is placed over an injured area, cold begins to permeate the skin to a depth of 1cm (0.4 inches), reaching this after approximately eight minutes (times are dependent on an individuals depth of fatty tissue layer).

What this means is ice/gel packs can only push cold in to a depth of 1cm (0.4 inches).

After approximately 25 minutes of RICE treatment the ice/gel pack is removed, at this stage the deeper tissue - to a depth of 3 cm (1.2 inches) begins to loose heat as it rewarms the surface tissue. At 1 hour 5 minutes the deep tissue is cooler than the 1cm (0.4 inches) tissue and after approximately 1 hour and 20 minutes deep tissue at 3cm (1.2 inches) has rewarmed again. Time deep cooling is active with ice/gel packs – 15 minutes.

Arctic Blast uses evaporative cooling from the second it is applied, as heat is drawn out from

the top 1cm (0.4 inches), the deeper tissue - to 3cm (1.2 inches) continually loses heat as it rewarms the top tissue, creating deep tissue cooling. Arctic Blast will provide over an hour of evaporative cooling, and with a further 40 minutes before the top 1cm (0.4 inches) is rewarmed, and a further 20 minutes before the deep tissue at 3cm (1.2 inches) is rewarmed. Time deep cooling is active with Arctic Blast – 2 hours.

What this means is Arctic Blast draws heat out of the tissue, rather than trying to push it in, allowing faster and longer cooling, without risking periphery nerve damage.

### How should I use Arctic Blast?

Simply open the foil pouch, wring excess from the compression bandage back into the foil pouch, reclose pouch so that the Arctic Blast does not evaporate. Then simply wrap bandage around the injured area, with a 50% overlap, as you normally would.

Leave compression bandage in place - it will create up to 15C degrees (27F Degrees) of cooling for over an hour, until the bandage dries. The bandage may then be left on, as it is still providing the compression needed for the treatment of your injury.

After three to four hours, recharge your compression bandage with Arctic Blast Recharge and repeat treatment.

### Does Arctic Blast require Ice or Refrigeration?

No. Arctic Blast comes in a ready to use foil package, along with a Recharge bottle. It does not require ice or refrigeration. In fact, it can sit in the “midday” sun and still be ready to use. A lot of people keep Arctic Blast in their gearbag as a precautionary measure.

### Arctic Blast and Endurance Events

“In November 2007 on behalf of Endurance New Zealand, I attended the Malaysian World Endurance Champs Pre-Event Test and assisted the King of Malaysia’s team. During the event temperatures ranged between 28C/82F and 35C/95F, while humidity ranged from 70% to 95%

After each of the 6 laps we used Arctic Blast’s Instant Cooling Rug once our horses had cleared the Vet Ring (*this happens once the horses heart rate is below 64 beats per minute*).

On each occasion we used Arctic Blast for approximately 28 minutes and measured heart rate and rectal temperature (*core temperature*) every 7 minutes. On average heart rate decreased 8 beats per minute and core temperature decreased 1C/1.8F after each application.

This is more significant than it seems, as the other teams who were using fans, misting and water were finding core temperatures to be creeping up, while we were achieving cooling.

I will continue to use Arctic Blast and have recommended it’s use to Endurance New Zealand”.

**Kevin James**, High Performance Director, Endurance New Zealand