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KAWELL was started as a university project geared towards innovation, problem solving, and maintenance services for the veterinary industry. Over the last few years we have worked with specialized companies and professionals in order to develop the theoretical and technical basis needed to design and manufacture a therapeutic product for the care of horses and prevention of disease. Eight years of research we have developed the best possible combination of materials and products to achieve both goals. We must remember to pay attention and take care of our horses' health, whether or not the animal is subjected to regular work, in order to prevent serious consequences such as injury, disease, infection and lameness, which could be irreversible.

The old saying "No Hoof – No Horse" still holds true, and the role of the farrier should never be underestimated. A high proportion of the veterinary needs for a horse are hoof-related. Most importantly: The hooves of all horses can become contaminated with FUNGI AND BACTERIA. In the event of a lax cleaning routine, this natural hazard can often lead to disease or lameness that can take several months to resolve. One of the most widespread therapeutic tools to treat these symptoms is the use of copper salts (sulfates and naphthenates among others). KAWELL horseshoes supply these salts to the animal naturally. Furthermore, the use of iron horseshoes exposes the hoof and its internal anatomic structures to repetitive impacts and vibrations, which are clinically defined as "REPEATED LOW INTENSITY TRAUMA". Such trauma over time can lead to damage to the equine musculoskeletal system, and is the main cause of lameness in equines.

KAWELL horseshoes are made of an alloy of copper and other metals devised to give your horse a better quality of life from the very first day of use. They have bactericidal and fungicidal properties to prevent the proliferation of these microorganisms in the hooves and, even more importantly, are designed to absorb the vibrations produced by repetitive impact. Our herbal healing shampoo and oral/topical spray have been developed to help heal and maintain the horses' skin and coat in the most natural way possible, without the risk of additional insult due to reactions to harsh chemicals or the "essential oils" that some horses are allergic to. The use of a healing plant with extremely low toxicity provides a safe and effective method of addressing many skin issues, including bacterial and fungal diseases such as dermatitis and ringworm. In addition it provides assistance in the healing process of wounds to the skin.

Patent No. EP 2583552 A1
EPA Registration No. 82012-3



The Use of Copper Alloy Horseshoes

By Dr. Esco Buff, PhD, APF, CF



Dr. Esco Buff

Copper is man's oldest metal, dating back more than 10,000 years. A copper pendant discovered in what is now northern Iraq goes back to about 8700 B.C. Copper is a mineral and an element essential to our everyday lives. It's a major industrial metal because of its high ductility, malleability, thermal and electrical conductivity and resistance to corrosion. Its antimicrobial properties are becoming increasingly important to the prevention of infection.

First experiences with copper horseshoes

I first started forging copper for horseshoes back in the late 1970's to use for horses being used to pull wedding parties. The look of a black hoof with copper shoes and nails looked regal. The copper shoes would not last much longer than two weeks. Copper in its pure form is not obviously suited for everyday use as a horseshoe, however it is easily alloyed with other metals. This alloying with other metals gives the copper strength, wear resistance, hardness, antimicrobial, thermal conductivity and corrosion resistance, making it ideal to use as a therapeutic horseshoe.

The important role of EPA

Copper and Copper Alloys have been used for thousands of years to kill bacteria and can commonly be found in hospitals to minimize the spread of bacterial and fungal diseases. The U.S. Environmental Protection Agency (EPA) has acknowledged and tested over 350 copper alloys. Copper is the only metal whose antimicrobial properties have been certified by the EPA. Laboratory testing has shown that Copper Alloy has continuous and ongoing antibacterial action killing greater than 99.9% of bacteria within 2 hours.

Initial studies at the University of Southampton, UK, and tests subsequently performed at ATS-Labs in Eagan, Minnesota, for the EPA show that copper alloys containing 65% or more copper are effective against: Methicillin-resistant Staphylococcus aureus (MRSA), Vancomycin-resistant Enterococcus faecalis (VRE), Enterobacter aerogenes, Escherichia coli O157:H7, and Pseudomonas aeruginosa.

Antimicrobial capacity of Kawell™ Horseshoes

In order for a Copper Alloy horseshoe company to make any claims about killing bacteria, they must have been tested and undergone registration with the EPA. To date, I'm only aware of one horseshoe company is EPA registered, that is Kawell™. This means Kawell™ can claim that their horseshoes have a 99% effectiveness against killing bacteria that comes in contact with the horseshoe.

Any horse with bacterial or fungal hoof, sole and frog infections can benefit from the use of EPA approved Kawell's Copper Alloy horseshoes. Habitual seedy toes, Canker cases after debridement and with a brazed or welded in copper alloy frog plate, and Thrush cases all benefit from the contact of the Kawell's Copper Alloy horseshoes. The Kawell's Copper Alloy horseshoes can be brazed or welded just like steel. Steel can be brazed/welded into the Copper Alloy horseshoes as well as Copper Alloy into steel horseshoes.

Other properties of this Copper Alloy

Also, Kawell's Copper Alloy horseshoes produce a force transmission of a lesser magnitude than that of steel horseshoes. There is an attenuation of the magnitude of the force as well. What this means is Copper Alloy horseshoes reduce the impact of vibrations, about 8.53% in one study.

Moreover, Kawell's Copper Alloy horseshoes can be cold and hot shaped. When shaped cold, they work like steel shoes but with a bit more spring when hit with your shaping hammer. When shaped hot, found the Kawell™ Horseshoes are easily manageable to 1100F working temperatures and held together without any issues or break down of metal. I found this temperature good for shaping, forging and drawing clips. Lower temperatures are fine for shaping and some forging. Copper Alloy horseshoes when worn out are a recyclable material too.

All horses can benefit

For all these reasons and experiences, I have been highly impressed with Kawell's Copper Alloy Horseshoes due to their strength, wear resistance, antimicrobial properties and corrosion resistance.



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