



Burns  
occur always and everywhere.



# Burns...

## What does this mean?



### Definition:

Fire, hot objects, hot gases, electricity, chemicals and overexposure to the sun can damage the skin and deeper tissues reversibly or irreversibly. When talking about scalds we mean injuries through steam and boiling liquids.

### Why is that the case?

This can be attributed to the bad heat conductivity of the skin. If high temperatures act upon the skin area in a short period of time, the heat can not be absorbed quick enough.

### When does the damage to the tissue occur?

Already at temperatures of 50° C to 60° C tissue damage occurs, which may heal again or lead to permanent damage depending on the duration and the intensity of the heat.

### Temperatures:

Boiling water	100°C	Flames	1200°C
Boiling oil	200°C	Explosiones	2000°C
Red hot iron	800°C		

### Classification of burns:

Burns are catagorized by degrees according to the depth of penetration of the damage caused to the tissue.

#### 1<sup>st</sup> degree burns

Symptoms: The skin turns red, swellings, tenseness and pain.  
Damage to the tissue: The burn affects only the surface of the skin.  
Healing: Within a few days. There won't be any scars.

#### 2<sup>nd</sup> degree burns

Symptoms: The skin turns red, blisters form, severe pain.  
Damage to the tissue: The burn affects the outerskin and the top part of the dermis. The hair roots, the glands and the pain receptors are not affected. This is the reason why 2<sup>nd</sup> degree burns are very painful.  
Healing: There will be no scars. However, disturbance of the pigments may appear in the affected areas.

#### 3<sup>rd</sup> degree burns

Symptoms: The burn either appears whiteish or is charred black. 3<sup>rd</sup> degree burns do not hurt since the pain receptors have been destroyed. There is also no bleeding since the blood vessels are burnt as well.  
Damage to the tissue: Deeper damage has been done to the tissue.  
Healing: As a result of the healing process, scars will form. If they spread over the joints, restriction in movement may occur.

# Burns...

## What kind of care is necessary?



### **1 Immediately! Interrupt the flow of heat.**

- Thermal burns: Extinguish the fire on the clothes
- Electrical burns: Remove the person from the source of electricity
- Chemical burns: Neutralise caustic chemicals or rinse down with plenty of water

### **2 Immediately! Cool, cool and cool again!**

- Cool exclusively with water or even better use Vesta.
- Cool the burnt area for a period of at least 20-30 minutes.

### **3 Important! Remove the loose pieces of clothing.**

- Before the burnt area is cooled all clothing not adherent to the wound must be removed.
- Whenever possible remove rings, watches, belts and shoes from the burnt area before swelling may develop.

### **4 Important! Cover wounds with sterile dressing!**

- Wounds should be covered with sterile blankets, clean cloths, or even better with **VESTA**.

## Never

- **Never remove clothing or any other material that has stuck to the wound.**
- **Never use ice cubes or ice water to cool the area.**
- **Never use household remedies like ointments, oil, flour, butter etc. to cool the burnt area.**
- **Never pierce blisters.**

## Important!

- Severe 2<sup>nd</sup> and 3<sup>rd</sup> degree burns, as well as slight burns on the face, on the hands, over the joints and on private parts must be examined and treated by a doctor.
- Attention: Contrary to adults even slight burns are dangerous to children and elderly people.

**For more information go to: [www.vestatec.ch](http://www.vestatec.ch)**

# Burns...

## Why VESTA?



- Vesta cools instantly and due to laws of physics keeps permanently cool.
- Vesta is water in a solid form and therefore lasts a long time on the injured area.
- Vesta is water in a portable form and therefore available everywhere.
- Vesta is a natural product which alleviates pain. It also soothes pain from skin injuries, insect bites and jellyfish stings.
- Vesta keeps the wound sterile and protects against contamination from the environment. It also prevents the loss of body fluids.
- Vesta is very easy to apply and it doesn't stick to the wound. It can also be removed without painful procedure.

## VESTA products

### For slight burns

**VESTAGEL:** Sterile hydrogel available in sticks. It is easy to take with you to the working place as well as to use for example in the kitchen and in industrial companies.

### Serves as a wound dressing

**VESTASAN:** Sterile dressing soaked in hydrogel. VESTASAN is available in various sizes. It is the ideal product for the first-aid-kit.

### For serious burns

**VESTATEX:** Sterile hydrogel blanket for emergency care of severe burns and scalds of all kinds. It is used extensively for professional action by rescue services.

### For sunburns

**VESTASOL:** Hydrogel with additional skin care components. For sunburns, insect bites and jellyfish stings.

