



*Vulkanian hot spring*



## *The curative Vulkania® water ...*

... rises from a depth of 2,843 metres, where thousands of years ago an inland lake emerged amidst a volcanic landscape. In the course of the millenniums, tectonic shifts and geological formations above the volcanic abysses hermetically sealed off this inland lake from all outside influences. This unique primeval sea was discovered during deep drillings for oil in the late 70's. Today, the curative Vulkania® water which is free of any environmental influences or chemicals can be enjoyed by all guests' of Rogner Bad Blumau stimulating relaxation and health.



## *Vulkania – the green lagoon*

The Vulkania lake consists of two pond-like arranged outdoor pools with curative water. One pool features underwater music and deep whirls whereas the second pool is filled with freshwater in summer to cool down. The 30,000 m<sup>2</sup> large garden of the 4 elements with its sun-bathing lawns and hammocks offers plenty of room for privacy. 1,200 m<sup>2</sup> of indoor relaxation and regeneration area and the Vulkania restaurant integrate harmonically into the synergy between nature and architecture.

## *The most fortifying spring ...*

... in the Austrian spa region.

Bathe and recuperate in ancient, highly mineralised curative Vulkania® water (17,621.1 mg/kg). Enjoy this special water that feels like silk as it smoothes and firms the skin, encourages metabolism, promotes blood circulation, and generates a healing and beneficial stimulus for all physical functions.

### **Chemical data**

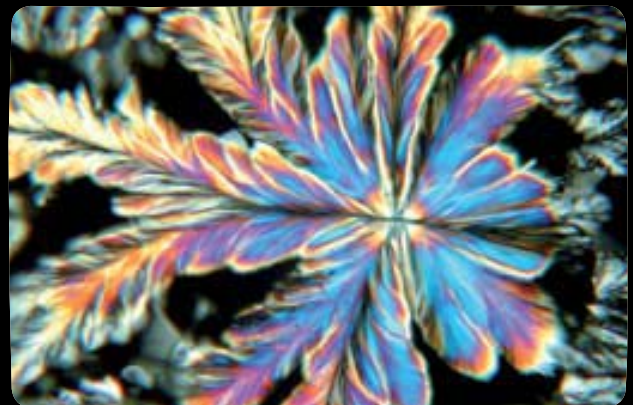
1. Dissolved carbon dioxide  $4.8 \pm 1.2$  mg/kg
  2. Oxidation acc. to KUBEL  $6.2$  mg  $\text{KMnO}_4$ /kg
- Temperature: up to  $110^\circ\text{C}$  · pH-value ( $31^\circ\text{C}$ ):  $8.03$   
Evaporation residue ( $120^\circ\text{C}$ )  
 $15.928 \pm 230$  mg/kg · Electrolytic conductivity ( $20.1^\circ\text{C}$ )  
 $20.1$  mS/cm · Density ( $20^\circ\text{C}$ )  $1.009$  g/cm<sup>3</sup>

Consequently it is a fact that the curative Vulkania® hot spring contains highly valuable healing water. The mineral content (Vulkania® spring = 17.6 g dissolved substances per kg) by far exceeds standard values (1g dissolved substances per kg) for natural healing deposits.

The same is true for the temperature of the water; a steady temperature of at least  $20^\circ\text{C}$  is required when leaving the earth in order to be classified as a hot spring. On average the Vulkania® hot spring shows approx.  $110^\circ\text{C}$  and more! A scientific study conducted by the Institute for Pharmacology and Toxicology of the Karl-Franzens-University of Graz certifies that the spring is suitable for medicinal applications in many ways.

## *The Vulkania hot spring*

In the course of the millenniums this thermal and curative water has not only been highly mineralised, but also enriched with natural carbonic acid ( $\text{CO}_2$ ). Due to this high mineralisation, the curative Vulkania water can be used in the thermal outdoor pools without further purification or processing. The thermal water is also the source for the production of bio-energy, providing heat for the entire hotel and spa complex, saving Rogner Bad Blumau approx. 1,300 tons of oil, and the environment approx. 3,900 tons of carbon dioxide discharge per year. The high  $\text{CO}_2$  content of the water is made usable (with the help of liquefaction technology) in the geothermal power plant of Bad Blumau. The  $\text{CO}_2$  is mainly sold and partly used for the purification of the "Melchior water" – therefore an annual saving of 26,8 tons of sulphuric acid is possible. According to the study and water analysis done by Univ. Prof. Dr. Greschönig, Institute of Analytical Chemistry, of the University of Graz, it is a sodium-hydrogen-carbonate-chloride spring. Please contact the SPA reception for a more detailed analysis.



*Water crystal image Vulkania® spring (AQA Seibersdorf Research)*



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