



## GEMMOLOGICAL REPORT

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**Report Number**  
22080089

**Colour**  
blue

**Date**  
30 August 2022

**Species**  
Natural corundum

**Item**  
One faceted gemstone

**Variety**  
Sapphire

**Weight**  
10.12 ct

**Condition**  
No indications of heating (NTE).

**Shape**  
cushion-shape

**Comments**  
See Information Sheet(s).

**Cut**  
brilliant cut / step cut

Important notes and limitations on the reverse.

**Measurements**  
11.62 x 9.96 x 8.07 mm

**Transparency**  
transparent



Lidia Bellomo



Dr. Klaus Schollenbruch





GÜBELIN

## GEMSTONE RATING

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Excellent

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**Variety:**  
Sapphire



**Weight:**  
10.12 ct

Scan QR-Code for more information



Gübelin Gem Lab  
Lucerne Hong Kong New York  
[www.gubelingemlab.com](http://www.gubelingemlab.com)

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## INFORMATION SHEET

to Report No. 22080089

### Unheated sapphires

Large sapphires of gem-quality are rarely found in nature. Not only is a delicate mineralogical balance essential for this blue variety of corundum to be formed deep within the earth, but specific geological conditions as well as adequate pressure and temperature must also be present. Furthermore, the sufficient supply of a rare combination of chemical elements, such as aluminium, iron and titanium, are yet another necessity required for the formation of sapphires.

Over the past decades, various heating techniques, as well as the use of chemical additives, have become increasingly sophisticated to raise the supply of sapphires resembling the high-quality untreated specimens. The aim of these treatments was and still is to improve the visual appearance of the gemstones.

Prior to the advent of modern heating techniques, rough sapphires were cut and polished retaining the quality that nature had originally endowed them with. Therefore, in earlier times, sapphires with obvious imperfections were considered and accepted as the norm. However, the expectations with respect to quality (colour and transparency) rose steadily ever since.

The demand for natural, unheated sapphires keeps growing while the supply of such gems remains limited, making natural sapphires of gem-quality from all major sources (such as Kashmir, Burma (Myanmar), Sri Lanka, Madagascar and Tanzania) difficult to find.

Information Sheets are intended to provide information supplementary to the contents of the Report and comment on, for instance, the type of gemstone, the geographic origin and the presence or absence of treatments. By definition, Information Sheets are purely informative in nature; they consist of a standard text and are issued for all types of stones of that particular category. Information Sheets, therefore, do not imply a certain quality or rarity of the stone described in the Gübelin Gem Lab Report which it is attached to.

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to Report No. 22080089

### Sapphires, origin not determinable

The sapphire described in the above mentioned Report possesses a combination of gemmological characteristics which does not permit a sufficiently secure identification of origin.

Conclusions regarding origin are drawn based on comparisons with the internal characteristics, as well as physical and chemical properties recorded for reference stones of known identity, the results of continuing research led by the Gübelin Gem Lab, and gemmological knowledge published to date.

Gemstones from different geological sources may reveal a tell-tale combination of characteristic inclusion patterns, absorption spectra and trace-element compositions that allows for the determination of their origin.

However, the combination of data may not, in all instances, provide the necessary basis for an origin determination. When such a case arises, the Gübelin Gem Lab does not comment as to the origin of the gemstone.

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