



## GEMMOLOGICAL REPORT

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Report Number  
22087347

Colour  
blue

Date  
22 August 2022

Species  
Natural corundum

Item  
One faceted gemstone

Variety  
Sapphire

Weight  
20.90 ct

Origin  
Sri Lanka (Ceylon)

Shape  
cushion-shape

Condition  
No indications of heating (NTE).

Cut  
brilliant cut / step cut

Comments  
See Information Sheet(s).

Measurements  
17.54 x 14.38 x 9.23 mm

Important notes and limitations on the reverse.

Transparency  
transparent

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*Bonita Kwok*

Bonita Kwok



## INFORMATION SHEET

to Report No. 22087347

### 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.

## GEMSTONE RATING

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Sapphire



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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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