GLA Gemmologisches Labor Austria

Graduierung und Bewertung von Diamanten, Farbedelsteinen & Schmuck

Dieses Bild dient nur der Identifikation und stellt nicht die Originalgröße bzw. die tatsächliche Farbe dar.

GUTACHTEN Nr.: **52161**

Datum: **09.03.2021**

EDELSTEINGUTACHTEN

Name des Steines	Edelopal	**Maße (mm)**	14,97 x 10,94 x 5,62
Mineralname	natürlicher Opal	**Schliffart und –form**	Tropfen, Cabochon
Gewicht (ct)	4,850	**Oberteil**	mugelig
Farbe	gutes Farbenspiel (IV)	**Unterteil**	poliert
Transparenz	transparent	**Finish/ Proportionen**	sehr gut / sehr gut
Reinheit	frei von Matrix (A)	**Gesamtschliff**	sehr gut

I	II	III	IV	V	VI	VII	VIII	IX	**Farben-spiel**
extra fein	sehr gut		gut		mittel		niedrig		

A	B	C	D	E	F	G	H	I	**Matrix**
frei von Matrix	bis 10% Matrix	bis 20 % Matrix	bis 30% Matrix	bis 40% Matrix	bis 50% Matrix	bis 60% Matrix	bis 75% Matrix	bis 90% Matrix	

Bemerkungen Die gemmologischen Merkmale dieses Edelopals deuten auf den Fundort Welo, Äthiopien, hin.

Zweck der Begutachtung:

Graduierung und
Ermittlung des Wiederbeschaffungswertes im Detail-/Einzelhandel

SCHÄTZWERT: € 1.000,--

in Worten: --eintausend--

gemäß Edelsteine und gerichtlich zertifizierte Sachverständige
ADELINE LAGEDER
Fachgebiet Juwelen, Edelmetalle & Edelsteine

Stampiglie und Unterschrift des Gutachters

INTERNATIONAL GEMOLOGICAL INSTITUTE

COLORED STONE REPORT

November 4, 2020

IGI Report Number	447093327
Species	NATURAL OPAL
Shape and Cutting Style	PEAR CABOCHON
Weight	4.93 CARATS
Measurements	14.97 x 10.95 x 5.62 mm
Color and Transparency	GREY, TRANSLUCENT
Characteristics	NATURAL INCLUSION(S) PATTERN

Comments:
Play of color effect

Photography is approximate

OPTICAL and PHYSICAL PROPERTIES

Refractive Index	1.450
Specific Gravity	2.15

Optical and physical properties are approximate values

www.igi.org

Species & Variety

Gems may be classified in different species, according to their basic chemical composition and crystal structure; within a certain species, small differences in composition may result in different colors, or varieties.

The way that light interacts with the gem may create some astonishing optical phenomena, such as a star, a cat's eye effect or change of color, in different varieties

Transparency

As light passes through a gemstone, part of it, if not all, will be absorbed, and part will be transmitted. The more light that is absorbed the less transparent the stone will be.

Characteristics

Internal characteristics are the fingerprints of a gemstone. Not only do they provide essential information about the formation, but also the possible geological and geographical region where they originate from. Sometimes they also provide information about whether the gemstone has been treated.

Refractive Index

When light passes through air and enters a gemstone it slows down due to a difference in the medium. The ratio between the speed of light in air and in a particular medium is known the Refractive Index.

Optic Character

Determining how light travels through the crystal. Using a range of specialized instruments, we will be able to establish if the stone is isotropic or anisotropic, uniaxial or biaxial.

Specific Gravity

Specific gravity is the ratio of the density of the gemstone to the density of an equal volume of water.

All IGI Laboratories employ a wide range of state-of-the-art equipment, like FTIR and Raman spectrometers, all of which give a unique spectral graph for different gemstones. They can reveal the species of the gemstone, treatments and, at times, even the geographic origin.

FCS – 10.20