

TANZANITE TECHNICAL SPECIFICATIONS

MINERAL: Zoisite

CHEMICAL COMPOSITION: $\text{Ca}_2\text{Al}_3\text{SiO}_4\text{Si}_2\text{O}_7$

REFRACTIVE INDEX: 1.691 - 1.700

BIREFRINGENCE: .008 - .013

SPECIFIC GRAVITY: 3.35

HARDNESS: 6 - 7

FLUORESCENCE: LW SW Inert

OPTICAL PROPERTIES: Trichroic

HEAT TREATMENT: Tanzanite is assumed to be heat-treated and there is no evidence of structural or chemical alteration after the heat treatment.

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E.G.L. South Africa



Tanzanite Jewellery Certificate



E.G.L. South Africa

COLOUR (hue) BLUE - VIOLET	SATURATION	COLOUR (hue) VIOLET - BLUE
V	Vivid	V
I	Intense	I
M	Moderate	M
L	Light	L
P	Pale	P

CLARITY	
LC	Loupe Clean
EC	Eye Clean
LI	Lightly Included
MI	Moderately Included
HI	Heavily Included

FINISH	
A	Excellent
B	Very Good
C	Good
D	Fair
E	Poor

TERMINOLOGY

- COLOUR (HUE):** The essential colour of the stone. Tanzanite can show a dominance of either blue or violet or a combination thereof. the **Dominant** colour is mentioned last and is in bold.
- SATURATION :** Is the strength/intensity of the colour.
- CLARITY:** The imperfections that may occur in the stone.
- FINISH:** The final polish, symmetry and external characteristics of the stone.

TANZANITE JEWELLERY CERTIFICATE NO: TJC80401097

SAMPLE

Description:	Natural Tanzanite
Approximate Dimensions:	4.03x3.98x2.92 mm
Shape:	Round
Approximate Carat Weight:	0.31 ct (Total Weight)
Colour (Hue):	violet BLUE
Saturation:	Moderate
Clarity:	Loupe Clean
Finish:	Very Good

SIGNATURE



ORIGINAL

This report expresses an opinion at the time of inspection of the gem's in the setting and is not a guarantee. No representation or warranties as to the accuracy are made. It is a term of the agreement under which E.G.L. expresses an opinion the E.G.L. is expressly held harmless by customers including, but without limitation for any claims or actions that may arise in connection with the preparation of this information or actions upon the customer's use there of.