

## 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 Certificate



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

CLARITY	
<b>LC</b>	Loupe Clean
<b>EC</b>	Eye Clean
<b>LI</b>	Lightly Included
<b>MI</b>	Moderately Included
<b>HI</b>	Heavily Included

FINISH	
<b>A</b>	Excellent
<b>B</b>	Very Good
<b>C</b>	Good
<b>D</b>	Fair
<b>E</b>	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 CERTIFICATE NO:** TC 90400855  
SAMPLE

Description:	TANZANITE
Approximate Dimensions:	11.44x7.68x4.69mm
Shape:	Pear
Approximate Carat Weight:	2.67 ct (Total Weight)
Colour (Hue):	blue VIOLET
Saturation:	Intense
Clarity:	Lightly Included
Finish:	Very Good

SIGNATURE



**ORIGINAL** This report expresses an opinion at the time of inspection of the stone, not a guarantee, valuation or appraisal. No representation or warranties as to the accuracy are made. It is a term of the agreement under which E.G.L. expressly held harmless by customers including, but without limitation for any claims or actions that may arise in connection with the preparation of this certificate or actions based upon the customers use of the certificate.