



Wiener Edelstein Zentrum, 1010 Wien, Himmelpfortg. 7/20a, www.edelsteine.at

Gemstone Passport

Tanzanite

Weight:	1.95cts
Origin:	Tanzania
Cut:	oval faceted
Size:	9.1x7.3x4.5mm
Clarity:	eye-clean
Treatment:	heated



Original weight 2.12cts. This gemstone was expertly re-cut in Germany and is characterized by outstanding brilliance and excellent proportions.

General gemmological data of Tanzanite

Formula	$\text{Ca}_2\text{Al}_3(\text{SiO}_4)_3\text{OH}$
Crystal system	orthorhombic
Moh's hardness	6.5-7
Specific gravity (density)	3.35
Refractive index	birefringent 1.691-1.700
Max. double refraction	0.009
Dispersion	very strong 0.030
Pleochroism	very strong bluish purple / brown
Luminiscence	inert
Lustre	vitreous
Cleavage	perfect
Fracture	uneven
Colour	bluish purple, purplish blue, blue (rare)