

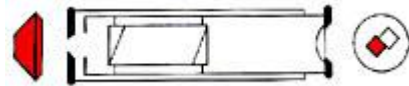
The dicroscope

[Français](#)
[Deutsch](#)

is used to examine colored stones, either cut or rough.



The instrument is built around a calcite, equiped with a loup and an opening at each end. The calcite divides the lightray into two polarised rays. Therefore you observe two images of your stone. By simple comparison you detect basic cristallographical information of the tested mineral.



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You place the mineral in front of the instrument and direct it toward a light source. Then you compare the two images. Make sure to observe the mineral in different directions.

	Both images stay identical this means that the mineral is isotropic , amorphous or micro cristallic .
	When you observe two different colors then the mineral is double refracting and belongs to the group of uniaxial cristallic systems.
	If you see three different colors, in fact two at a time, then the mineral is double refracting and belongs to the group of biaxial cristallic systems.

These results allow to arrange your mineral within the following 3 groups of crystallographic structure:

<i>one single color</i>	<i>two colors</i>	<i>three colors</i>
isotropic	anisotropic / doubly refracting	
cubic amorphous micro cristallic	uniaxial tetragonal hexagonal trigonal	biaxial orthorhombic monoclinic triclinic

Analcime Cubic Zirkonia Cuprit Diamond Djevalite Fabulite Fluorite Gahnite Garnet <i>Almandine</i> <i>Andradite</i> <i>Demantoide</i> <i>Grossulare</i> <i>Hessonite</i> <i>Melanite</i> <i>Pyrope</i> <i>Rhodolite</i> <i>Spessartite</i> <i>Tsavorite</i> <i>Uvarovite</i> Hauyne Melanite Periklas Pollucite Sphalerite Spinel YAG Amber Opal <i>Fireopal</i> Glass <i>Moldavite</i> <i>Obsidian</i> <i>Tektite</i> Agate <i>Aventurine</i> <i>Calcedony</i> <i>Carneol</i> <i>Chrysoprase</i> <i>Moosagate</i>	Anatase Apophyllite Skapolite Vesuvianite Wulfenite Zircon Apatite Benitoite Beryl <i>Aquamarine</i> <i>Bixbit</i> <i>Goshenite</i> <i>Heliodor</i> <i>Morganite</i> <i>Emerald</i> Zinkite Calcite Diopase Corundum <i>Ruby</i> <i>Sapphire</i> Phenakite Quartz <i>Amethyst</i> <i>Ametrine</i> <i>Rockcrystal</i> <i>Smoky Quartz</i> <i>Citrine</i> Rhodochrosite Turmaline <i>Dravite</i> <i>Indigolite</i> <i>Rubellite</i>	Andalusite Anglesite Cerussite Chrysoberyl <i>Alexandrite</i> Enstatite Hemimorphite Kornerupine Cordierite Peridot Phrenite Sinhallite Topaz Zoisite <i>Tanzanit</i> Azurite Diopside Epidote Euclase Feldspar <i>Amazonite</i> <i>Labradorite</i> <i>Mikroclin</i> <i>Moonstone</i> <i>Orthoclase</i> <i>Oligoclase</i> <i>Sunstone</i> <i>Sanidine</i> Clinohumite Petalite Spodumen <i>Kunzite</i> <i>Hiddenite</i> Staurolite Titanite Vivianite Amblygonite Axinite Disthene, Cyanite Ulexite
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More information and pricelist [here](#)