

## Quartz or « rock crystal »

Quartz is one of the major components of the Earth's crust. It can be found in many of our mountain ranges, and particularly in the Alps. It is a colourless, transparent, crystallised silica (SiO2) commonly known as « rock crystal ».



## The three forms of silica:

- crystalline,
- nanocrystalline,
- vitreous
- The crystalline form is found in many rock formations, such as magmatic (granites), sedimentary (sandstone, sand) and metamorphic (quartzite) rocks.
- The nanocrystalline form, with minute crystals, is present in agates, chalcedony and flint.
- The vitreous form is rare, but can be found in opal and obsidian (volcanic lava)

## Quart's variety of forms is due to the environment it is formed in.

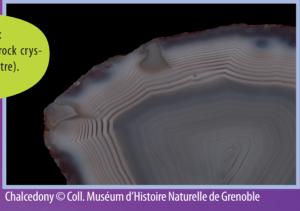
Quartz often presents six-sided prism facets terminating with six-sided pyramids.

In its purest form it is colourless and transparent, and known as « rock crystal ». Impurities are responsible for its coloured forms: violet for amethyst, yellow for citrine.





Agate, Cape of Good Hope, South Africa © Coll. Muséum d'Histoire Naturelle de Grenoble







Quartz herisson, Mine de la Gardette, Isère, France . © Coll. Muséum d'Histoire Naturelle de Grenoble

