

Where can olivine be found

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Overview Identification and paragenesis Crystal structure High-pressure polymorphs Weathering Mining Applications Experimental uses The mineral olivine is a magnesium iron silicate with the chemical formula $(\text{Mg,Fe})_2\text{SiO}_4$. It is a type of nesosilicate or orthosilicate. The primary component of the Earth's upper mantle, it is a common mineral in Earth's subsurface, but weathers quickly on the surface. Olivine has many uses, such as the gemstone peridot (or chrysolite), as well as industrial applications like metalworking processes.

Olivine, any member of a group of common magnesium, iron silicate minerals. Olivines are an important rock-forming mineral group. Magnesium-rich olivines are abundant in low-silica mafic and ultramafic ...

One example of this rich olivine pine forest can be found in Bjørkedalen. The underlying bedrock often contains rare, heavy-metal-rich minerals that can reach toxic levels for many plants.

Detailed description, properties, and locality information guide about the mineral olivine (fayalite, forsterite, peridot).

Olivine is a magnesium-rich silicate mineral formed deep in Earth's mantle. Learn how olivine forms, its geological setting, physical properties, and industrial and gem uses.

Olivine has been found in meteorites and on Mars, suggesting its presence in the early formation of the solar system. Olivine weathers quickly on the surface, so it is not common in sedimentary rocks.

Olivine is a green gemstone that forms from volcanic eruptions and can be found in various locations around the world, including Hawaii, Arizona, New Mexico and ...

In addition to being discovered in such an exotic port, olivine has also been found on the moon and as far away as the planet Mars. It has also been found traveling on an asteroid called Itokawa and in ...



Where can olivine be found

Learn how to find olivine and peridot specimens in various igneous rock deposits, beaches, quarries, outcrops, and meteorites in the U.S. See the best states and loca...

Named for its olive green color, the mineral olivine is almost exclusively found in igneous rocks (intrusive or volcanic) that are associated with divergent plate boundaries or oceanic hot spots.

Olivine is commonly found in igneous rocks, beaches, quarries, rocky outcrops, or exposures. Interestingly, it is a standard class of minerals found in meteorites.

Olivine occurs in both mafic and ultramafic igneous rocks and as a primary mineral in certain metamorphic rocks. Mg-rich olivine crystallizes from magma that is rich in magnesium and low in ...

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