

Rutile on Hematite [TiO₂]

Rutile is a very important mineral in modern industry is a major economic ore of titanium, a lightweight metal with high strength and high resistance to corrosion. Most crystals form beautifully twinned prismatic and opaque crystals, which occasionally occur as acicular, golden fibers. Some quartz crystals contain fine rutile fibers that have exsolved and formed after the crystallization of the quartz. The orientation of these rutile fibers is often controlled by the host mineral structure and form stars (asterism) when cut and polished appropriately. Rutile occurs in intrusive igneous rocks and is also common in metamorphic rocks, such as gneisses, schists, and limestones.



Rutile with Hematite B56



Rutile with Hematite P10



Rutile and Hematite OR7