APATITE

Sign of elongation: negative

Occurrence: a very common accessory mineral in a wide variety of igneous and metamorphic rocks

Note: apatite inclusions in biotite or amphibole may be rimmed with dark pleochroic halos



Apatite in pegmatite from Žulová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite in pegmatite from Žulová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi



Apatite in pegmatite from Žulová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite and allanite-(Ce) in pegmatite from Žulová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite in pegmatite from Žulová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.2 mm. Photo: JiZi.



Apatite in pegmatite from Černá Voda, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.7 mm. Photo: JiZi.



Apatite and titanite in pegmatite from Žulová, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.6 mm. Photo: JiZi.



Apatite and altered microcline in pegmatite from Staré Podhradí, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite and altered microcline in pegmatite from Staré Podhradí, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.7 mm. Photo: JiZi.



Biotite with apatite inclusions in granite from Liberec, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.6 mm. Photo: JiZi.



Apatite, biotite, hornblende and feldspars in diorite from Dolní Kounice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite in diorite from Dolní Kounice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite in diorite from Dolní Kounice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



Apatite inclusions in plagioclase in gneiss from Horní Hoštice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.2 mm. Photo: JiZi.



Apatite in orthogneiss from Vidly, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.3 mm. Photo: JiZi.