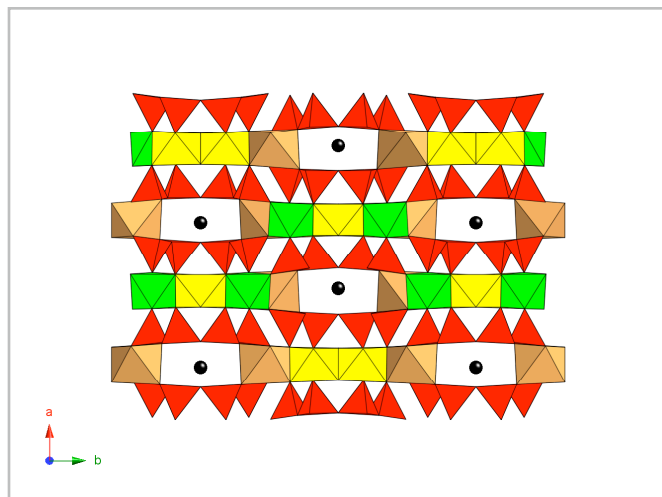


gedrite

66.1.2.6



mineral group	amphibole
mineral subgroup	anthophyllite
date named	1836
name derivation	Named after the locality of Heas Valley near Gédre, France.



Harvard ID # 125588
Locality: Nesodden, Norway
Horizontal Dimension: 4.7 cm

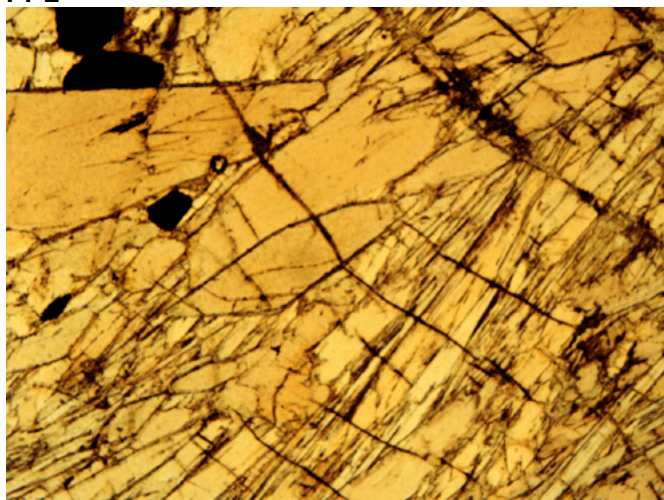
Dana class	double-chain silicate	
diagnostic properties	prismatic cleavage	
color	white, gray, green, brown	
luster	vitreous	
streak	white, gray	
Mohs hardness	5.5-6	specific gravity 3.15-3.57
cleavage	perfect prismatic, with 56 and 124 degree angles between faces	
fracture & tenacity	subconchoidal, uneven, brittle	
habits	prismatic crystals, or massive, fibrous, or lamellar; may be asbestiform	
special properties	transparent to translucent	
reaction with acid	insoluble	

gedrite

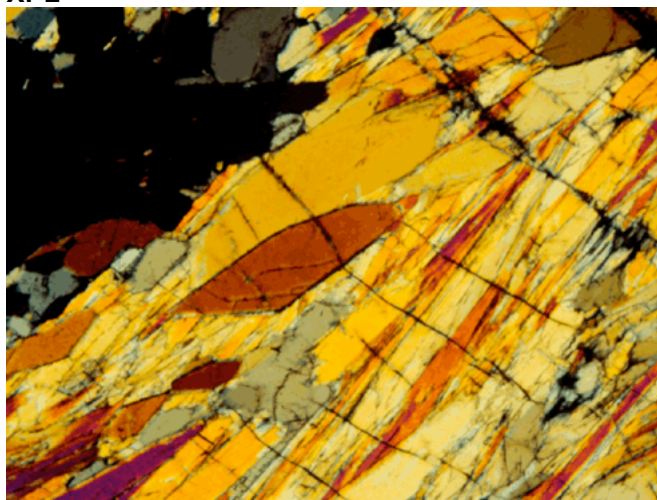
66.1.2.6



PPL



XPL



crystal class	orthorhombic dipyramidal
birefringence	0.013-0.029
a Axis	18.531-18.601
b Axis	17.741-17.839
c Axis	5.249-5.284
alpha	90
beta	90
gamma	90
Z	4

crystal system	orthorhombic
reflectance	
space group	Pnma
2V	70-90
optic type	biaxial
optic sign	+/-
alpha epsilon	1.625-1.690
beta omega	1.635-1.705
gamma	1.643-1.718

optical comment

Gedrite is distinguished from the monoclinic amphiboles in that it has parallel extinction. Sillimanite is also similar but has a smaller 2V and only one cleavage. Gedrite may be difficult to distinguish from anthophyllite, except that it is rare to have optically negative gedrite.

occurrence

Found in a wide range of medium- and high-temperature metamorphic rocks. Occurs with garnet, cordierite, hornblende, anthophyllite, cummingtonite, sapphirine, sillimanite, kyanite, quartz, staurolite, and biotite. Not found in igneous rocks.

selected localities

Grafton, Oxford Co., Maine; Haddam, Middlesex Co., Connecticut; Masons' Mountain, Macon Co., and Franklin, North Carolina; Ruby Dam area, Madison Co., Montana; Orofino, Clearwater Co., Idaho; Powder Mill Point, Berkeley, Alameda Co., California; U.S.A. Gedre, Heas Valley, Haut Pyrenees, France. Strathy, Sutherlandshire; Glen Urquhart, Inverness-shire; Scotland. Nesodden, Snarum, Bjordammen, Bamle, Norway. Schisshyttan, near Vaster Silfberg, Varmland, Sweden. Shueverskoya, Karelia, Russia. Budsbrook, Western Australia, Australia. Wakamatsu mine, Tottori Prefecture; Iratsuyama, Ehime Prefecture, Japan. Penge, Transvaal, South Africa.