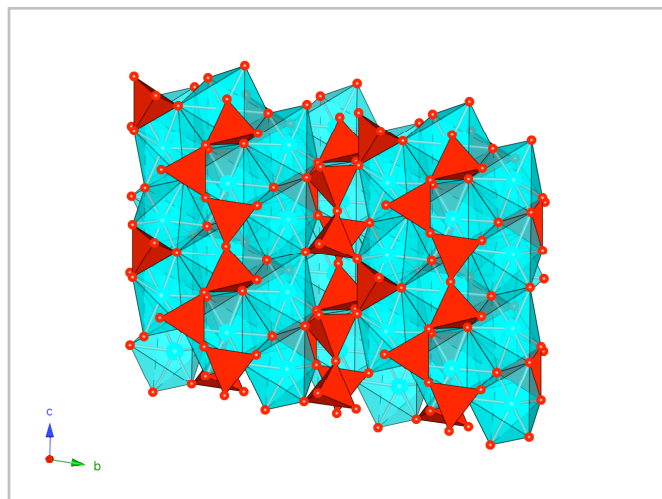
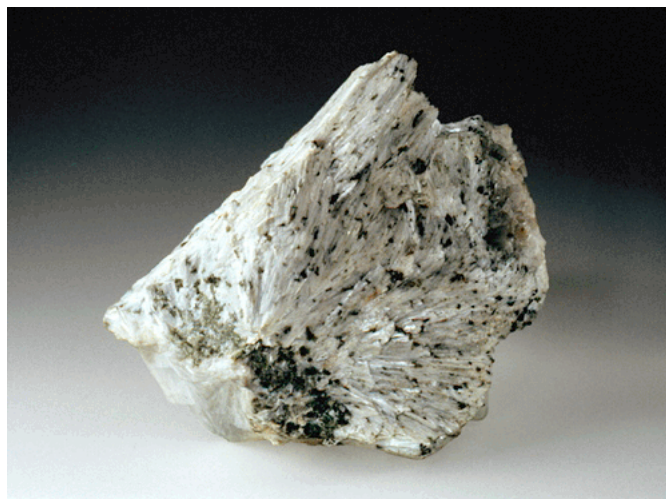


# wollastonite

CaSiO<sub>3</sub>

65.2.1.1a

mineral group	wollastonite
mineral subgroup	
date named	1818
name derivation	Named by Leman for English mineralogist and chemist, William Hyde Wollaston.



Harvard ID # 105854  
 Locality: Sobotin, Moravia, Czech Republic  
 Horizontal Dimension: 9 cm

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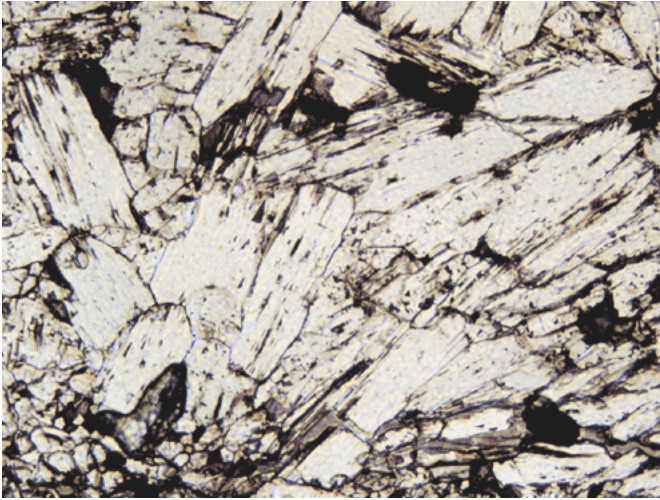
<b>Dana class</b>	single-chain silicate	
<b>diagnostic properties</b>	fibrous, prismatic, pale white to gray	
<b>color</b>	white, colorless, gray	
<b>luster</b>	vitreous, pearly, silky	
<b>streak</b>	colorless, white	
<b>Mohs hardness</b>	4.5-5	<b>specific gravity</b> 2.86-3.09
<b>cleavage</b>	{100} perfect	
<b>fracture &amp; tenacity</b>	uneven, splintery, brittle	
<b>habits</b>	fibrous, acicular, or radiating masses; rarely tabular crystals	
<b>special properties</b>	transparent to translucent; may fluoresce blue-green	
<b>reaction with acid</b>	decomposed by concentrated hydrochloric acid	

# wollastonite

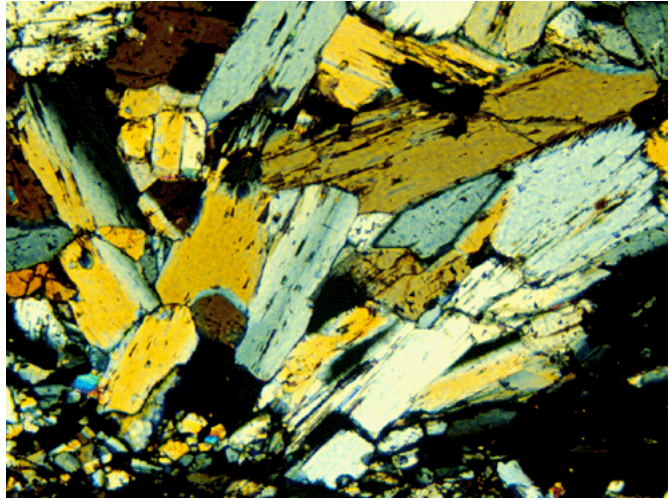
65.2.1.1a



PPL



XPL



crystal class	pedial
birefringence	0.018-0.014
a Axis	7.926
b Axis	7.320
c Axis	7.0675
alpha	90.05
beta	95.22
gamma	103.43
Z	6

crystal system	triclinic
reflectance	
space group	$P\bar{1}$
2V	36-60
optic type	biaxial
optic sign	-
alpha epsilon	1.616-1.631
beta omega	1.628-1.644
gamma	1.631-1.646

## optical comment

Wollastonite has a lower birefringence than both tremolite and pectolite. Wollastonite has a lower relief and smaller 2V than the calcic clinopyroxenes.

## occurrence

Found in calcium-rich rocks that have undergone contact metamorphism, and in areas that experienced low pressure regional metamorphism. Often associated with calcite, grossular, vesuvianite, akermanite, larnite, and spurrite.

## selected localities

Willsboro, Essex Co., Diana, Lewis Co., New York; Franklin, Sussex Co., New Jersey; Isle Royal, Keweenaw Co., Michigan; Christmas mine, Gila Co., Holbrook shaft, Bisbee, Cochise Co., Arizona; Tonopah, Esmeralda Co., Nevada; Crestmore, Riverside Co., California; U.S.A. Santa Fe mine, Pichucalo, Chiapas, Mexico. Oka and Asbestos, Quebec; Outlet Post, Leeds Co., Ontario; Canada. Dognecea, southeast of Tinisoara, Banat, Romania. Sarrabus, Sardinia; Monte Somma and Vesuvius, Campania; Italy. Dunmorehead, Mourne Mountains; Scawt Hill, near Larne, Co. Antrim; Ireland. Kongsberg, Norway. Gockum, Sweden. Harzburg, Harz Mountains; Auerbach, Odenwald, Hesse; Germany. Sobotin, Moravia, Czech Republic. Belafa, Madagascar.