In fine powder is soluble with difficulty in hydrochloric acid, more easily in sulphuric acid.

Analyses	3 (of an	mb	lyg	oni	te from	Arnsdo	orf by R	ammelsh	erc .
Phosphoric	a	cid				48.00	47.15		commercial)	cig.
Alumina Lithia Soda Potash Fluorine						36.56	38.43	36.62	36.89	
						6.33	7.03		90 99	
						5.48	3.29	_	-	
						_	0.43	-	-	-
						-	_	_	_	8.11

Is found in crystalline masses, with tourmaline and topaz, in granite at Chursdorf and Arnsdorf near Penig in Saxony, and at Arendal in Norway.

319. XENOTIME.—Phosphate of yttria; Phillips. Xenotime; Beudant. Pyramidaler Retin-Baryt; Mohs. Ytterspath; Hausmann. Xenotim; Haidinger.

Pyramidal. 101,001 = 41° 0'.

a 100, e 101.

aa'	90°	0'	ee'	55° 17′
ea	49	0	ee"	82 0

Combination. ea. Cleavage. a. Fracture splintery...uneven. Translucent...
translucent on the edges. Lustre resinous.
Brown and red of various shades. Streak
light brown. Brittle. H = 4.5...5.0. G = 4.39...4.557.

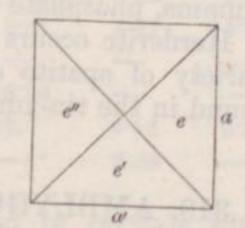


FIG. 494.

Infusible before the blowpipe. With borax melts into a colourless bead, which becomes milky on cooling. Soluble with difficulty in salt of phosphorus, forming a colourless glass. With boracic acid and iron wire yields phosphide of iron. Insoluble in acids.

Y³P, phosphoric acid 37·17, yttria 62·83.

Analysis of xenotime from Norway by	Ber	rzeli	us:-	191	
Phosphoric acid with traces of hydrofly	ori	0 00	5.		33.49
Yttria Basic phosphate of protoxide of iron	•	· inv			62.58
According to Scheerer, xenotime from	No	way	z eo	ntai	ne ·
Phosphoric acid and silies				00	
Yttria and red oxide of iron				68	