

Crystal Data: Monoclinic. *Point Group:* 2/m. Crystals, to 1 mm, are acicular to bladed, flattened on {001} and elongated along [010] with dominant {001}. As dense divergent fibrous sprays to 2 mm.

Physical Properties: *Cleavage:* None. *Fracture:* Irregular. *Tenacity:* Brittle. Hardness = 5.5-6 D(meas.) = n.d. D(calc.) = 4.644

Optical Properties: Transparent. *Color:* Pale pink. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Biaxial (+). $\alpha = 1.755(5)$ $\beta = 1.760(5)$ $\gamma = 1.770(5)$ 2V(meas.) = 71.8(5)° 2V(calc.) = 71° *Orientation:* $X \wedge a = 83.1^\circ$ (β obtuse), $Y // b$, $Z \wedge c = 50.3^\circ$ (β acute).

Cell Data: *Space Group:* P2₁/c. $a = 7.0722(2)$ $b = 5.6198(1)$ $c = 21.4390(4)$ $\beta = 122.7756(3)^\circ$ $Z = 4$

X-ray Powder Pattern: Stetind pegmatite, Tysfjord, Nordland, Norway.
4.769 (100), 2.972 (55), 3.289 (51), 2.728 (49), 2.810 (37), 3.013 (37), 4.507 (36)

Chemistry:	(1)	(1)	
SiO ₂	22.64	Gd ₂ O ₃	4.65
Al ₂ O ₃	9.45	Dy ₂ O ₃	4.21
Y ₂ O ₃	15.35	Er ₂ O ₃	2.31
La ₂ O ₃	3.25	Yb ₂ O ₃	1.86
Ce ₂ O ₃	9.69	F	2.71
Pr ₂ O ₃	2.05	H ₂ O	[3.78]
Nd ₂ O ₃	9.50	<u>-O = F₂</u>	<u>1.14</u>
Sm ₂ O ₃	3.57	Total	93.88

(1) Stetind pegmatite, Tysfjord, Nordland, Norway; average of 6 electron microprobe analyses, H₂O calculated from structure analysis; FTIR spectroscopy confirms OH; corresponding to (Y_{0.73}Ce_{0.32}Nd_{0.30}Gd_{0.14}Dy_{0.12}La_{0.11}Sm_{0.11}Pr_{0.07}Er_{0.06}Yb_{0.05})_{Σ=2.01}Al_{0.99}Si_{2.01}O₇(OH)_{2.24}F_{0.76}.

Occurrence: As inclusions in yttrium-rich fluorite in a NYF-type quartz-microcline pegmatite.

Association: Fluorite, bastnäsite-(Ce), yttrian fluorite, fluorthalénite-(Y), hematite, hundholmenite-(Y), kuliokite-(Y), perbøeite-(Ce), törnebohmite-(Ce), vyuntspakhkite-(Y).

Distribution: From the Stetind pegmatite, Tysfjord, Nordland, Norway.

Name: Honors Professor Jochen Schläuter (b. 1955), curator and director of the Mineralogical Museum of the University of Hamburg since 1988, who has described 20 new minerals to date from the Stetind pegmatite and indicates the dominant rare-earth element as a suffix.

Type Material: Department of Natural History, Royal Ontario Museum, Toronto, Ontario, Canada (M56409) and the Natural History Museum, Oslo, Norway (42428-42429).

References: (1) Cooper, M.A., T.A. Husdal, N.A. Ball, Y.A. Abdu, and F.C. Hawthorne (2013) Schläuterite-(Y), ideally (Y,REE)₂Al(Si₂O₇)(OH)₂F, a new mineral species from the Stetind pegmatite, Tysfjord, Nordland, Norway: description and crystal structure. *Mineral. Mag.*, 77(3), 353-366. (2) (2015) Amer. Mineral., 100, 2360 (abs. ref. 1).