Crystal Data: Hexagonal. *Point Group*: $\bar{6}\,m2$. As zones, to 20 μm, in the outer portions of bastnäsite-(Ce) crystals.

Physical Properties: *Cleavage*: Indistinct on $\{10\bar{1}\,0\}$. *Fracture*: Uneven. *Tenacity*: Brittle. *Hardness* = 4-4.5 D(meas.) = n.d. D(calc.) = 5.23

Optical Properties: Translucent. *Color*: Pale purplish pink to colorless. *Streak*: White [by analogy to bastnäsite-(Ce)]. *Luster*: Vitreous, greasy or pearly.
Optical Class: n.d. *n*(calc.) = 1.76

Cell Data: *Space Group*: $P\bar{6}\,2c$. a = 7.0792(13) c = 9.721(2) Z = 6

X-ray Powder Pattern: Stetind pegmatite, Tysfjord, Nordland, Norway.
2.86 (100), 4.86 (71), 3.54 (70), 2.00 (48), 2.04 (31), 1.883 (29), 2.43 (22)

Chemistry:

	(1)
Y_2O_3	0.19
La_2O_3	18.64
Ce_2O_3	18.64
Pr_2O_3	6.41
Nd_2O_3	26.86
Sm_2O_3	2.95
Gd_2O_3	1.30
Dy_2O_3	0.07
F	8.98
CO_2	[19.92]
–O=F	3.78
Total	100.18

(1) Stetind pegmatite, Tysfjord, Nordland, Norway; average of 6 electron microprobe analyses, CO_2 calculated from stoichiometry; corresponding to $(Nd_{0.353}La_{0.253}Ce_{0.251}Pr_{0.086}Sm_{0.037}Gd_{0.016}Y_{0.004}Dy_{0.001})_{\Sigma=1.001}CO_{2.978}F_{1.044}$.

Mineral Group: Bastnäsite group.

Occurrence: Forms zones in the outer parts of bastnäsite-(Ce) crystals in lenticular bodies of Y-rich fluorite in quartz-microcline NYF (niobium–yttrium–fluorine) pegmatite in granitic orthogneiss.

Association: Bastnäsite-(Ce), stetindite, atelisite-(Y), calcioancylite-(Nd), kozoite-(Nd), vyuntspakhkite-(Y).

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

Name: For a member of the *bastnäsite* group with *neodymium* as the dominant rare earth element.

Type Material: National Museum of Nature and Science, Tokyo, Japan (NSM-MF15494).

References: (1) Miyawaki, R., K. Yokoyama, and T.A. Husdal (2013) Bastnäsite-(Nd), a new Nd-dominant member of the bastnäsite group from the Stetind pegmatite, Tysfjord, Nordland, Norway. Eur. J. Mineral., 25, 187-191. (2) (2015) Amer. Mineral., 100, 1319-1320 (abs. ref. 1).