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Crystal Data: Orthorhombic. Point Group: 2/m 2/m 2/m. As well-formed, laminar crystals, to 5 mm, with $\{010\}$, $\{011\}$, and $\{111\}$; $\{001\}$ is common, but of poor quality.

Physical Properties: Cleavage: Perfect on $\{010\}$. Hardness = n.d. D(meas.) = 2.13(1)D(calc.) = 2.11

Optical Properties: Transparent to translucent. *Color:* White to slightly pink. *Luster:* Vitreous.

Cell Data: Space Group: Amma. a = 13.643(2) b = 18.200(3) c = 17.842(2) Z = 8

X-ray Powder Pattern: Capo Pula, Sardinia, Italy; cannot be distinguished from stellerite. 9.10 (> 100), 4.054 (100), 3.028 (80), 3.004 (25), 4.659 (20), 2.773 (20), 1.8192 (17)

Chemistry:

	(1)
SiO_2	58.82
Al_2O_3	14.75
$\mathrm{Fe}_2\mathrm{O}_3$	0.04
MnO	trace
MgO	0.24
CaO	1.66
SrO	trace
BaO	trace
Na_2O	5.97
$K_2 \overline{O}$	1.76
H_2O	16.40
Total	99.64

(1) Capo Pula, Sardinia, Italy; by AA, SiO₂ by gravimetry, Al₂O₃ by complexometric titration, H₂O by TGA; corresponds to $(Na_{1.36}K_{0.26}Ca_{0.21}Mg_{0.04})_{\Sigma=1.87}Al_{2.05}Si_{6.93}O_{18}\bullet 6.44H_2O.$

Mineral Group: Zeolite group.

Occurrence: On the walls of large fractures in deeply weathered andesitic and rhyolitic lavas.

Association: Heulandite.

Distribution: Found near Capo Pula, below South Efisio Tower, Nora, Sardinia, Italy.

Name: For Richard Maling Barrer (1910–), New Zealand-born British teacher and student of the chemistry of zeolites.

Type Material: University of Modena, Modena, Italy; National Museum of Natural History, Washington, D.C., USA, 128521.

References: (1) Passaglia, E. and D. Pongiluppi (1974) Sodian stellerite from Capo Pula, Sardegna. Lithos, 7, 69–73. (2) Passaglia, E. and D. Pongiluppi (1975) Barrerite, a new natural zeolite. Mineral. Mag., 40, 208. (3) (1976) Amer. Mineral., 61, 1053 (abs. refs. 1 and 2). (4) Galli, E. and A. Alberti (1975) The crystal structure of barrerite. Bull. Soc. fr. Minéral., 98, 331–340.