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Crystal Data: Hexagonal. Point Group: $\overline{3}$ 2/m, 3m, or 32. As anhedral grains, to 1 mm, in enstatite.

Physical Properties: Cleavage: Perfect on $\{001\}$. Fracture: Uneven. Hardness = 1.5 VHN = 82-109, 98 average (10 g load). D(meas.) = 2.51(3) D(calc.) = 2.55(1)

Optical Properties: Opaque. Color: Coal-black; gray in reflected light. Streak: Black. Luster: Submetallic. Pleochroism: In shades of gray. Anisotropism: Strong; in shades of gray. Bireflectance: Strong.

 $\begin{array}{l} R_1-R_2\colon (400) \ -\ ,\ (420) \ -\ ,\ (440)\ 14.2-15.4,\ (460)\ 14.5-15.8,\ (480)\ 14.7-16.4,\ (500)\ 15.0-16.8,\\ (520)\ 15.4-17.2,\ (540)\ 15.7-17.6,\ (560)\ 15.9-17.9,\ (580)\ 16.2-18.2,\ (600)\ 16.4-18.4,\ (620)\ 16.5-18.5,\\ (640)\ 16.6-18.6,\ (660)\ 16.6-18.6,\ (680)\ 16.7-18.6,\ (700)\ 16.8-18.7 \end{array}$

Cell Data: Space Group: $R\overline{3}m$, R3m, or R32. a = 3.326 c = 33.29 Z = 3

X-ray Powder Pattern: Norton County meteorite. 11.1 (100), 5.56 (10), 2.719 (5), 3.700 (4), 2.464 (4), 2.180 (4)

Chemistry:

(1)
0.0
0.6
4.2
33.7
39.1
21.
[2.65]
[101.25]

(1) Norton County; by electron microprobe, average of six analyses, H calculated for oxygen content; corresponds to $(Ca_{0.17}K_{0.02})_{\Sigma=0.19}Cr_{1.04}S_{1.96} \cdot 2.14H_2O$.

Occurrence: In an enstatite achondrite meteorite, formed by teresstrial weathering of caswellsilverite.

Association: Enstatite, ferroan alabandite, troilite, daubréelite, iron hydroxides.

Distribution: Found in the Norton County enstatite achondrite meteorite [TL].

Name: For Cronus, a Titan in Greek mythology, son of Uranus and Gaea, in allusion to a mixed meteoritic-terrestrial origin of the mineral.

Type Material: n.d.

References: (1) Britvin, S.N., X.Y. Guo, V.D. Kolomensky, M.M. Boldyreva, Y. Kretser, and M.A. Yagovkina (2001) Cronusite $Ca_{0.2}(H_2O)_2CrS_2$ – a new mineral from the Norton County enstatite achrondrite. Zap. Vses. Mineral. Obshch., 130(3), 29–36 (in Russian with English abs.). (2) (????) Amer. Mineral., ??, ??–?? (abs. ref. 1).