

Crystal Data: Cubic. *Point Group:* $4/m\bar{3}2/m$ (synthetic). As spherulitic and rounded grains, to 20 μm .

Physical Properties: *Tenacity:* Brittle (synthetic). Hardness = n.d. VHN = < 1875–2000
D(meas.) = 7.17 D(calc.) = [7.20]

Optical Properties: Opaque. *Color:* White, with a yellow tint in reflected light.
Luster: Metallic.

R: (480) 65.3, (546) 67.9, (589) 68.8, (656) 70.0

Cell Data: *Space Group:* $Im\bar{3}m$ (synthetic). $a = 2.8839$ $Z = 2$

X-ray Powder Pattern: Synthetic.

2.04 (100), 1.1774 (30), 0.9120 (20), 1.0195 (18), 1.4419 (16), 0.8325 (6)

Chemistry:

	(1)
Cr	98.01
Fe	< 0.01
Cu	0.37
Zn	1.40
Total	99.78

(1) Sichuan Province, China.

Occurrence: In heavy sands derived from the contact metamorphic zone between a siliceous marble and ultramafic rock (Sichuan Province, China); in a kimberlite pipe (Liaoning Province, China); in podiform chromitites (Luobusha ophiolite, China); in ultramafic dike rocks (Gavasai ore field, Russia); in kimberlite (Sakha, Russia); in serpentinite in dunite–peridotite (Far East, Russia).

Association: Pyrrhotite, pentlandite, chalcopyrite, platinum group minerals, danbaite (Sichuan Province, China); cohenite, moissanite, ilmenite, titanite (Gavasai ore field, Russia).

Distribution: In China, from an unspecified locality [Danba] in Sichuan Province [TL]; in “kimberlite pipe 50”, Liaoning Province; in sea-floor muds from near the island of Diaoyudao, a few km northeast of Taiwan, at about 1500 m depth; and in the Luobusha ophiolite, 200 km southeast of Lhasa, Tibet. In Russia, from the Gavasai ore field, location not further given; in unspecified kimberlite pipes in Sakha; and at an unspecified locality in the “Soviet Far East”.

Name: From the Greek *chroma*, *color*, as all chromium compounds are colored.

Type Material: n.d.

References: (1) Yue Suchin, Wang Wenying, and Sun Sujing (1981) A new mineral – native chromium. *Kexue Tongbao*, 26, 959–960 (in Chinese). (2) (1982) *Amer. Mineral.*, 67, 854–855 (abs. ref. 1). (3) Yusupov, R.G., D.D. Dzhenchuraev, and F.F. Radzhabov (1982) Native accessory chromium and natural iron-chromium-silicon compounds in intrusive rocks from the Gavasai ore field [USSR]. *Izv. Akad. Nauk Kirg. SSR*, 5, 24–25 (in Russian). (4) (1983) *Chem. Abs.*, 98, 110815 (abs. ref. 3). (5) Hull, A.W. and W.P. Davy (1931) *Chrom, Cr. Strukturbericht 1913–1928*, 1, 61 (in German). (6) (1955) *NBS Circ.* 539, 5, 20.