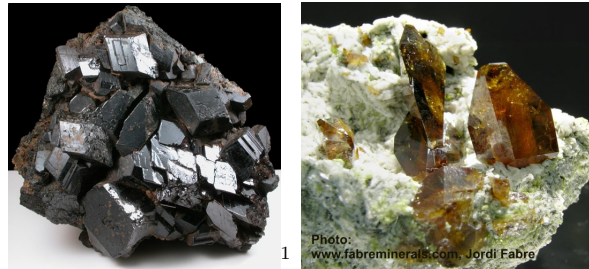


# Titanite (Sphene)

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**General Mineral Formula:**  $\text{CaTiOSiO}_5$

**Mineral Chemical Class:** Neosilicates

**Specific Gravity:** 3.4-3.6

**Hardness:** 5-5.5

**Cleavage:** 2,2

**Luster:** High Adamantine, greasy

**Streak:** White

**Characteristic Color(s):** tan to dark brown, can be yellowish-green, olive-green.

**Crystal System:** Monoclinic

**Crystal Class:** 2/m

**Crystal Description (common forms, habit, etc.):** Crystals are usually sharply angled, wedge-shaped crystals. May be flattened and tabular in form. Also prismatic. Twinning common as repeated twins. Crystals are sometimes striated.

**Environment (where you find the material):** In metamorphic rocks such as marble, gneiss, schist, and skarns. Especially in contact zones. Also in hydrothermal replacement deposits.

<sup>1</sup>Tan Brown color, high luster, wedge shaped crystals.

<sup>2</sup>found in metamorphic rocks such as marble, especially in contact zones

**Common Mineral Associations (in samples, also consult text, notes:** Diopside, Scapolite, Calcite, Phlogopite, Apatite, Epidote

**Scientific Usage/Significance:** Minor Ore of titanium.

**Industrial or Social Use/Significance:** Minor Ore of titanium.

**Environmental Significance:** None