## titanium, Ti

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Interaction of Titanium Dioxide with Sodium Fluoride and Sodium Carbonate. — X-ray and thermogravimetric studies indicate, that two previously described modifications of NaTiO<sub>2</sub>F are virtually mixtures of NaF + Na<sub>2</sub>Ti<sub>6</sub>O<sub>13</sub> (low-temperature  $\alpha$ -form) and NaF + Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub> (high-temperature  $\beta$ -form). Phase diagram studies in the Na<sub>2</sub>TiO<sub>3</sub>-TiO<sub>2</sub>-NaF system result in the detection of five oxyfluoride phases, but only one equilibrium phase of empirical formula 12NaF·35Na<sub>2</sub>O·53TiO<sub>2</sub>. This phase possesses marked cation conductivity. — (NALBANDYAN, V. B.; Zh. Neorg. Khim. 45 (2000) 4, 581-585; Rostovskii gos. univ., Rostov-na-Donu 344071, Russia; RU)

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