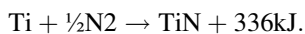


Crystal structure of Ti-N (titanium-nitride) system

Intermediate Phases

Applying pressing of Ti powder and liquid nitrogen in a closed vessel, Shibuya et al. [98Shi] have prepared titanium nitride according to:



There results titanium nitride with the stoichiometry of $\text{TiN}_{0,87}$ and cubic structure. Its lattice parameter amounts to $a = 0.4230 \text{ nm}$.

Symbols and abbreviations

Short form	Full form
a, b, c	lattice parameters

References

[98Shi] Shibuya, M., Despres, J.F., Odawara, O.: J. Mater. Sci. **33** (1998) 2573