

Isothermal bulk modulus = K_T

Bulk modulus under **isothermal** (constant **temperature** $T = \text{const}$) compression/decompression **thermodynamic process**:

$$(1) \quad K_T = \rho \cdot \left(\frac{\partial p}{\partial \rho} \right)_T$$

Isothermal bulk modulus is **material property** and is inverse to **Isothermal Compressibility** β_T :

$$(2) \quad K_T = \frac{1}{\beta_T}$$

See also

[Physics](#) / [Mechanics](#) / [Continuum mechanics](#) / [Continuum body](#) / [Bulk modulus](#)

[[Isothermal Compressibility](#)]