

Isothermal bulk modulus = KT

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](#)]