Isobaric volumetric heat capacity (cvp)

@wikipedia

Amount of heat required to change the temperature of one unit of volume under a constant pressure by one unit of temperature:

$$c_{vp} = \left(\frac{\delta Q}{\delta V \cdot \delta T} \right)_p$$

Symbol	Dimension	SI units	Oil metric units	Oil field units
c_{vp}	M L^{-1} T^{2} 1	J/(m^3K)	J/(m^3K)	BTU/(ft^3°F)

It is a material property and properly tabulated for the vast majority of materials.

See also

Physics / Thermodynamics / Thermodynamic process / Heat Transfer / Heat Capacity / Volumetric Heat Capacity

[Isochoric volumetric heat capacity (c_{vV})]

[Basic Petroleum Rock and Fluid Properties Handbook]