

# Standing-Katz (1942) Z-factor correlation chart

This is one of the industry basic charts based on natural gas experimental data with minor presence of non-organic fluids.

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where

|          |           |                   |               |                     |          |           |                                             |
|----------|-----------|-------------------|---------------|---------------------|----------|-----------|---------------------------------------------|
| <i>Z</i> | Z-factor  |                   |               |                     |          |           |                                             |
| <i>T</i> | ° Rankine | fluid temperature | $T_r = T/T_c$ | Reduced Temperature | $T_{pc}$ | ° Rankine | pseudo-critical temperature of the material |
| <i>p</i> | psi       | fluid pressure    | $p_r = p/p_c$ | Reduced Pressure    | $p_{pc}$ | psi       | pseudo-critical pressure of the material    |

## See also

[Natural Science](#) / [Physics](#) / [Thermodynamics](#) / [Z-factor](#) / [Z-factor Correlations @model](#)

## References

Standing, M. B. and Katz, D. L., "Density of Natural Gases," Trans. AIME, 1942, Vol. 146, pp. 140–149.