

## General Information Wobbe Index And Calorimeters Hobre

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Wobbe Index: The Wobbe Index (WI) is the main indicator of the interchangeability of fuel gases and is frequently defined in the specifications of gas supply and transport utilities. Wobbe Index is used to compare the combustion energy output with different composition of fuel gases. If two fuels have identical Wobbe Indices then

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The Wobbe Index or Wobbe number is an indicator of the interchangeability of fuel gases such as natural gas, liquefied petroleum gas, and town gas and is frequently defined in the specifications of gas supply and transport utilities. If  $V_C$  is the higher heating value, or higher calorific value, and  $G_S$  is the specific gravity, the Wobbe Index,  $I_W$ , is defined as: 
$$I_W = \frac{V_C}{\sqrt{G_S}}$$

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The Wobbe Index indicates the interchange ability of a fuel gas and is the best indicator of similarity between natural gas and a specific propane-air mixture. Since the Wobbe index relates heating characteristics of blended fuel gases it can be used to obtain constant heat flows from gases of varying compositions.

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### Fuel Gases and Wobbe Index - Engineering ToolBox

The Wobbe index is the ratio of the specific energy of a gas to its relative flow rate as shown by its constituent components:  $\frac{HHV}{\sqrt{RD}}$  - The Higher Heating Value, which is a measure of the energy per volume for the gas being considered.  $\sqrt{RD}$  .

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### Wobbe Index | Neutrium

The Wobbe index is a measurement of the degree to which fuels such as natural gas and propane can be interchanged. It is an important measure for appliances that use these fuels, as a gas line to one's house can carry gas supplied from a variety of different sources and suppliers.

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### What is the Wobbe Index? (with picture) - wiseGEEK

general information wobbe index and Wobbe Index: The Wobbe Index (WI) is the main indicator of the interchangeability of fuel gases and is frequently defined in the specifications of gas supply and transport utilities. Wobbe Index is used to compare the combustion energy output with different composition of fuel gases.

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### General Information Wobbe Index And Calorimeters Hobre ...

Wobbe index (WI) of a gas (normally natural gas) is the indication of the heating value of the gas from the pipeline at the orifice where a burner is located, this could be a gas turbine or a...

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### SIGNIFICANCE OF WOBBE INDEX IN GAS TURBINE OPERATION AND ...

General Information Wobbe Index and Calorimeters Introduction Hobre Instruments is a leading company in online analysing techniques Besides manufacturing analysers, Hobre Instruments is a worldwide known and valued system integrator With our 30 years of experience as analyser

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### Download General Information Wobbe Index And Calorimeters ...

Wobbe Index =  $1000 / \sqrt{0.6} = 1291$  A gas with a specific gravity of 0.6 and a BTU/cubic foot of 1050 is well within the typical range mentioned in the

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AGA bulletin: Wobbe Index =  $1050 / \sqrt{0.6} = 1356$  In fact, for pure Methane and the next two, [heavier] hydrocarbons, Ethane and Propane, properties are as follows: Wobbe BTU/Cubic Foot SG Index Methane 1012 0.55 1365

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### The Wobbe Index and Natural Gas Interchangeability

Wobbe index is an indicator of the interchangeability of fuel gases. The fuel gases include natural gas, liquefied petroleum gas (LPG) and town gas. On the other hand, this value measures the relative ability of fuel gases to deliver energy.

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### Difference Between Wobbe Index and Calorific Value ...

The corresponding range for the Wobbe index is usually between 40 MJ/m<sup>3</sup> and 60 MJ/m<sup>3</sup>. ISO 15971:2008 neither endorses nor disputes the claims of any commercial manufacturer for the performance of an instrument.

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### ISO - ISO 15971:2008 - Natural gas - Measurement of ...

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### General Information Wobbe Index And Calorimeters Hobre ...

The Wobbe number, or Wobbe index, is a description of a fuel gas used in deciding whether that gas can be substituted for another in a particular burner, for example, can propane be used in a kitchen range made to burn natural gas? The Wobbe Index is sometimes called the Interchangability Factor.<sup>1</sup> Symbol, WN or WI.<sup>2</sup>

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### Wobbe number - Sizes

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Abstract Specifies methods for the calculation of the superior calorific value and the inferior calorific value, density, relative density and Wobbe index of dry natural gas and other combustible gaseous fuels, when the composition of the gas by mole fraction is known. Replaces the first edition, which has been technically revised.

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ISO - ISO 6976:1995 - Natural gas □ Calculation of ...

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