Gas Injection Process

Injecting and intermixing an **Non-Combustible Gas** (D) (non-burnable gas) with the ' **Burnable Gas-Mixture** (B) "changes" or "alters" the gas-mixture "**Burn-Rate**".

Increasing the volume amount of Non-Combustible **Gas** (D) diminishes and/or lowers the Burn-Rate of the Gas-Mixture (B/D) and burner.

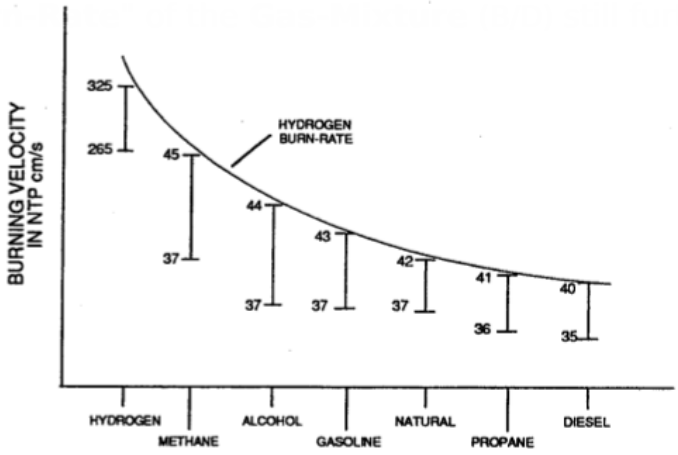

FIGURE 2-2: HYDROGEN BURN RATE

Progressive and controlled intermixing of the non-combustible gases (B/D) allowed the "Burn-Rate" of Hydrogen to be "lowered" or "adjusted" to "match" or ... co-equal the "Burn-Rate" of other **Fuel-Gases**, see curve line in Figure (2-2).

In terms of operational performance, the **Non-Burnable** gas (D) does "Not" support the **Combustion Process** since the **Non-Burnable Gas** (D) "restricts" or "retards" the speed at which the **Oxygen Atom** unites with **Hydrogen Atoms** to cause **Gas Combustion**.

> The "**Gas Retarding Process**" is, of course, applicable to any type or combination of **Burnable Gases** or **Burnable gas-mixture**.

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