

Gas Facts



1. ***SPECIFIC GRAVITY***

Natural Gas	0.60
Air	1.00
Propane	1.50
Butane	2.00

2. ***HEATING VALUE***

Natural Gas (national average)	1000 BTU/Cu.Ft.
Propane Gas	2550 BTU/Cu.Ft.
Propane Gas	1 Gal. = 36.18 cu. ft. = 92,259 BTU/Gal.
Butane Gas	3200 BTU/Cu.Ft.

3. ***PRESSURE CONVERSION FACTORS***

1 pound/sq. inch = 28" W.C.
¼ pound/sq. inch = 7" W.C .
1 inch mercury = 0.491 pounds/sq. inch
6 inch mercury = 3 pounds/sq. inch (approx.)

4. ***HEAT CONTENT***

1 Therm = 100,000 BTU

5. 1 KWH = 3413 BTU

6. #2 Oil per Gal. = 144,000 BTU

7. #1 Oil per Gal. = 136,000 BTU

8. 1 lb. Coal = 12,000 BTU

9. 1 lb. Soft wood = 6,500 BTU (1 Cord = 2000 Lbs. Dry)

10. 1 lb. ½ hard wood = 10,000 BTU (1 Cord = 2000 Lbs. Dry)

11. 1 lb. hard wood = 12,000 BTU (1 Cord = 2000 Lbs. Dry)

12. Natural Gas ignition temperature is approximately 1200°F

13. Propane ignition temperature is approximately 950°F

14. Natural Gas (CH₄) LEL 4% to UEL 14%

15. Propane (C₃H₈) LEL 2.2% to UEL 9.5%

16. 21% O₂ in air, at 19% O₂ people feel poorly, at 16% O₂ or less; Death

17. Combustion rate of natural gas is 25 inches per sec.

18. Combustion rate of Propane is 32 inches per sec.
19. Propane gas will not vaporize below - 44°F
20. Butane gas will not vaporize below +32°F

