

## SPECIFIC GRAVITY OF GASES

Dry Air (1 cu. Ft. at 60°F. & 29.92" Hg. Weighs.07638 pound)		.1.000
Acetylene	C <sub>2</sub> H <sub>2</sub>	.0.91
Ethane	C <sub>2</sub> H <sub>4</sub>	.1.05
Methane	CH <sub>4</sub>	.0.554
Ammonia	NH <sub>3</sub>	.0.596
Carbon-dioxide	CO <sub>2</sub>	.1.53
Carbon_monoxide	CO	.0.967
Butane	C <sub>4</sub> H <sub>10</sub>	.2.067
Butene	C <sub>4</sub> H <sub>8</sub>	.1.93
Chlorine	Cl <sub>2</sub>	.2.486
Helium	He	.0.138
Hydrogen	H <sub>2</sub>	.0.0696
Nitrogen	N <sub>2</sub>	.0.9718
Oxygen	O <sub>2</sub>	.1.1053

## SPECIFIC GRAVITY OF LIQUIDS

Liquid	Temp °F	Specific Gravity
Water (1 cu.-ft. weights 62.41 lb.)	50	1.00
Brine (Sodium Chloride 25%)	32	1.20
Pennsylvania Crude Oil	80	0.85
Fuel Oil No. 1 and 2	85	0.95
Gasoline	80	0.74
Kerosene	85	0.82
Lubricating Oil SAE 10-20-30	115	0.94

## TYPICAL BTU VALUES OF FUELS

ASTM RANK SOLIDS	BTU VALUES PER POUND
Anthracite Class I	11,230
Bituminous Class II Group 1	14,100
Bituminous Class II Group 3	13,080
Sub-Bituminous Class III Group 1	10,810
Sub-Bituminous Class III Group 2	9,670

LIQUIDS	BTU VALUES PER GALLON
Fuel Oil No. 1	136,000
Fuel Oil No. 2	138,000
Fuel Oil No. 4	145,000
Fuel Oil No. 5	148,000
Fuel Oil No. 6	152,000

GASES	BTU VALUES PER CU. FT.
Natural Gas	935 to 1132
Producers Gas	163
Illuminating Gas	534
Mixed (Coke oven and water gas)	545