

COMBUSTION PROPERTIES	FXD+ Natural Gas	FXD +Propane	FXD +Butane	ACETYLENE	MAPP GAS	NATURAL GAS	PROPANE	BUTANE
Flame Temp in Oxygen, F	5900 +	5900 +	6000	5875	5301	4600	4579	4925
Total Heating Value after	28520	22896	22743	21500	21100	24800	19768	19494
Heating Value of gas, BTU/ft	1108	2700	3603	1480	2380	1050	2560	3374
Burning Velocity in	16.6	14.3	12.5	22.7	15.4	15.2	12.2	11
Formation Reaction	Exothermic	Exothermic	Exothermic	Endothermic	Endothermic	Exothermic	Exothermic	Exothermic
Primary Combustion	68	350	360	505	484	55	295	315
Secondary Combustion	1036	2270	3240	1134	1896	995	2268	3114
Combustion Ratio	2:01	2.06:1	1.9:1	1.5:1	3.5:1	2:01	4.7:1	1.8:1
SAFETY	Stable	Stable	Stable	Unstable	Relatively	Stable	Stable	Stable
Explosive Limits	5.0 - 59	2.5 - 58	1.7 - 60	3.0 - 93	2.5 - 60	5.0 - 59	2.4 - 57	1.8 - 60
Explosive Limits	5.3 - 14	2.25 - 9.40	1.7 - 9.0	2.5 - 80	3.4-10.8	5.3 - 14	2.3 - 9.5	1.8 - 8.4
Maximum allowable	Line	Cylinder	Cylinder	PSI 15	Cylinder	Line	Cylinder	Cylinder
Tendency to Backfire	Slight	Slight	Slight	Considerable	Moderate	Slight	Slight	Slight
Reactions with Common Materials	Few Restrictions	Few Restrictions	Few Restrictions	Copper & Silver Alloys	Copper & Silver Alloy	Few Restrictions	Few Restrictions	Few Restrictions

APACHI/HPG
5300
22100
2400
15
Endothermic
438
1962
3.1:1
Stable
2.0 - 57
2.0 - 10.0
Cylinder
Slight
Few Restrictions