

PROPELLANT	HF	DENSITY	WEIGHT	MOLES	VOLUME
N2O	18.6500	.7220	.7500	.0170	1.0388
PAPER	-142.0300	.8000	.2500	.0025	.3125

GRAM ATOMS/100 GRAMS

H 1.5419 O 2.4750 N 3.4081 C .9251

ENTHALPY = -3.72652 DENSITY = .740
 CSTAR = 4961.69

	CHAMBER	THR(SHIFT)	EXH(SHIFT)
PRESSURE (PSIA)	1000.000	575.339	14.700
EPSILON	.000	1.000	9.151
ISP	.000	101.611	249.526
ISP (VACUUM)	.000	190.338	270.272
TEMPERATURE(K)	3158.056	2976.670	1760.918
MOLECULAR WEIGHT	28.258	28.545	29.410
MOLES GAS/100G	3.539	3.503	3.400
CF	.000	.659	1.618
PEAE/M (SECONDS)	.000	88.728	20.746
GAMMA	1.226	1.224	1.231
HEAT CAP (CAL)	38.174	38.040	35.991
ENTROPY (CAL)	221.136	221.136	221.136
ENTHALPY (KCAL)	-3.726	-15.587	-75.253
DENSITY (G/CC)	7.42011E-03	4.57521E-03	2.03591E-04
ITERATIONS	11	3	8

GRAMS/100 GRAMS

H	.01224	.00868	.00008
H2	.09286	.07892	.05882
HO	1.10298	.82467	.00200
HO2	.00597	.00326	.00000
H2O	11.62439	11.92201	12.60405
H2O2	.00052	.00028	.00000
O	.16207	.10307	.00000
O2	1.96151	1.51824	.00009
HN	.00003	.00001	.00000
HNO	.00064	.00032	.00000
HNO2	.00020	.00010	.00000
HNO2	.00018	.00009	.00000
H2N	.00002	.00001	.00000
H3N	.00003	.00001	.00000
N	.00015	.00006	.00000
NO	1.38664	.99237	.00062
NO2	.00238	.00130	.00000
N2	47.04229	47.23384	47.71311
N2O	.00068	.00037	.00000
HCOOH	.00008	.00004	.00000
CHN	.00001	.00000	.00000
CHNO	.00002	.00001	.00000
CHO	.00014	.00006	.00000
CO	8.46988	7.22012	3.15451
CO2	26.29080	28.28119	34.75594