



Propellant Data

Part Number: 8225W
Propellant Type: White Lightning™
Visual Effect: Bright white flame, dense white smoke
% Solids: 82
Density: 0.06576 lb/in³
I_{sp} at 1000/14.7 PSI: 213.8 seconds
Burn Rate Exponent: 0.45
Burn Rate Coefficient: 0.012

Thermodynamic Properties at 1000/14.7 PSI:

ENTHALPY = -29.05709 DENSITY = 1.825
 CSTAR = 4285.48

	CHAMBER	THR (SHIFT)	EXH (SHIFT)
PRESSURE (PSIA)	1000.000	563.594	14.700
EPSILON	.000	1.000	9.331
ISP	.000	90.379	213.777
ISP (VACUUM)	.000	165.449	232.047
TEMPERATURE (K)	2339.042	2144.828	1299.125
MOLECULAR WEIGHT	27.125	27.331	28.756
MOLES GAS/100G	3.687	3.659	3.478
CF	.000	.679	1.605
PEAE/M (SECONDS)	.000	75.071	18.271
GAMMA	1.243	1.243	1.243
HEAT CAP (CAL)	37.534	37.213	35.358
ENTROPY (CAL)	197.210	197.210	197.210
ENTHALPY (KCAL)	-29.057	-38.441	-81.557
DENSITY (G/CC)	9.61633E-03	5.95546E-03	2.69826E-04
ITERATIONS	5	3	23

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