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Understanding
Combustion - Part III -
Solid fuels Solid
Propellant Chemistry
Combustion And
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base propellants are used in small and medium sized rockets and thus exposed to varying ambient temperatures. The sensitivity of the motor operation to temperature depends upon the propellant burning rate sensitivity to both the temperature and the pressure.

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Combustion in solid
propellant motors
involves exceedingly
complex reactions
taking place in the
solid, liquid, and gas
phases of
heterogeneous
mixtures. Not only are

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the physical and chemical processes occurring during solid propellant combustion not fully understood, but analytical combustion models have remained oversimplified and unreliable.

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base propellants are

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used in small and
medium sized rockets
and thus exposed to
varying ambient
temperatures. The
sensitivity of the
motor operation to
temperature depends
upon the propellant
burning rate
sensitivity to both the
temperature and the
pressure.

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Combustion of Solid Propellants

The combustion of a solid propellant is characterized by the way its surface regresses once it begins to burn. The burning rate is the distance traveled by the flame front per unit of time, measured normally to the burning surface.

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The burning rate is obtained by the strand useful length and the duration of the firing.

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185. Vigor Yang,
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Thomas B. Brill, Wu-
Zhen Ren, Paul
Zarchanm, 2000,. p.
288 ff. Double-base
propellants (DB) give
minimal smoke with
medium-high
performance, Isp ~
235 s. Adding
aluminum gives Isp ~
250 s with visible
smoke.

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The two main classes
of solid propellant,
namely double base
and composite are
then discussed. The
relationships between
burning rate and
chemical composition

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for both classes are considered, and the effects of operating pressure, temperature, and erosion on propellant burning are reviewed.

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the dynamical
behavior observed in
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rocket motors. Here
we are concerned
with the theoretical
framework in which
chamber dynamics
are investigated; and
certain aspects of
combustion dynamics
represented by the
response function
which is ultimately
the macroscopic
realization of the
propellant chemistry

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phenomena are of

great interest to the

solid propellant

community and have

been studied for

many years. One area

of particular interest

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is the relation
between fluctuating
pressure and
propellant
combustion. Pressure
fluctuations, such as
acoustics, naturally
occur inside solid
rocket combustion
chambers during
motor firing.

Modeling the
unsteady combustion

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