

## Control of Pyrotechnic Burn Rate

B. J. and K. L. Kosanke

### ABSTRACT

*There may be many times when a fireworks manufacturer will want to adjust the burn rate of pyrotechnic compositions. Sometimes this may be for matters of esthetics and other times for safety. For example, all of the following are unacceptable:*

- *Strobe stars that flash with so low a frequency that they fall to the ground still burning.*
- *Color stars that burn so rapidly that they occasionally explode when a shell flowerpots.*
- *Rockets that fail to lift-off because their thrust is too low.*
- *Rockets that explode upon firing because internal pressures exceed the casing strength.*
- *Salmes that burn like fountains instead of exploding with violence.*
- *Flash powder that explodes when unconfined, even in small quantity.*

*In each case, taking action to adjust burn rate should solve the problem.*

*Depending somewhat on how they are counted, there are at least 15 factors that control pyrotechnic burn rate. A manufacturer that understands how these factors act to affect burn rate may better anticipate when product performance difficulties will occur. Also, such a manufacturer will be better prepared to modify product formulations to correct any problems that do occur. Each of the burn rate control factors act by affecting one or more of the following: activation energy, heat of reaction, and efficiency of energy feedback. In this paper, the 15 factors are presented, explained and examples given.*

### Introduction

In the burning of most pyrotechnic compositions it is necessary to balance competing processes to achieve the maximum desired effect. For example, when flame temperature of a color star is too low, the result can be low light output be-

cause there are an insufficient number of electrons reaching excited states. However, conversely, when flame temperature is too high, the result can be bright but washed-out colors because the color producing molecules have thermally decomposed. In addition to aesthetic ramifications, safe performance can also require a balance between too little and too much output. For example, when the thrust produced by a fireworks rocket is too low, the result can be an explosion of the rocket at ground level because the rocket failed to fly into the air. Conversely, when the thrust is too high, the result can again be an explosion at ground level because the internal pressure exceeded the strength of the motor casing.

One mechanism, useful in adjusting pyrotechnic output, is the control of burn rate. Burn rate determines the rate of energy release, and thus to some extent the flame temperature of a star. More directly, burn rate determines the rate of gas production from a propellant, and thus the thrust from and internal pressure within a rocket motor. Accordingly, an understanding of the ways in which burn rate can be adjusted, can be useful in modifying pyrotechnic formulations to maximize their performance and safety. In this article, after a brief theoretical discussion, which forms the basis for understanding how each factor acts to modify burn rate, 15 factors that affect burn rate are presented, discussed and examples given.

### Pyrotechnic Ignition

Pyrotechnic materials are said to exist in a "meta-stable" state. That is to say, under normal circumstances they are stable (they do not spontaneously ignite); however, once ignited, the combustion reaction is self-sustaining producing an excess of thermal energy. The reason pyrotechnic materials do not spontaneously ignite under normal conditions is that ignition requires the input of energy into the composition. Once ignited, however, the pyrotechnic material burns thus producing energy. This two step energy relationship is illustrated in Figure 1, which is an attempt to

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**S Ben Porath**



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### **Selected Pyrotechnic Publications of K. L. and B. J. Kosanke, Part 4** Kenneth L. Kosanke, Bonnie J.

Kosanke, 1999-12 These are a collection of previously published technical papers on a variety of pyrotechnic topics The articles have been reformatted into a 2 column 81 2x11 format with medium print Only those articles that continue to be of interest and use to pyrotechnicians have been included

### **Chemistry of Pyrotechnics** Chris Mocella, John A.

Conkling, 2010-12-23 Primarily driven by advancing technology and concerns for safety advancement in the world of pyrotechnics and high energy materials has exploded in the past 25 years The promulgation of new government regulations places new and more stringent restrictions on the materials that may be used in energetic mixtures These regulations now mandate numerous training programs and initiate other actions such as OSHA's Process Safety Management standard intended to eliminate accidents and incidents Unfortunately the US lacks an organized broad range academic program to cover the science and use of energetic materials and educate the next generation of pyrotechnicians Designed as a bridge to allow a smooth and confident transition for personnel coming from a chemistry background into the practical world of explosives Chemistry of Pyrotechnics Basic Principles and Theory Second Edition emphasizes basic chemical principles alongside practical hands on knowledge in the preparation of energetic mixtures It examines the interactions between and adaptations of pyrotechnics to changing technology in areas such as obscuration science and low signature flame emission Much more than a simple how to guide the book discusses chemical and pyrotechnic principles components of high energy mixtures and elements of ignition propagation and sensitivity It offers heat compositions including ignition mixes delays thermites and propellants and investigates the production of smoke and sound as well as light and color Promoting the growth and expansion of pyrotechnics as a science Chemistry of Pyrotechnics Basic Principles and Theory Second Edition provides practitioners with the ability to apply chemical principles and logic to energetic materials and thereby make the field as productive useful and safe as possible

### **Military Pyrotechnics** Ajoy K. Bose, 2021-12-13 This book covers military

pyrotechnics characteristics sensitivity combustion performance parameters ingredients and their behaviour various pyrotechnic compositions and their manufacturing methods filling pressing and assembly of ammunition and so forth Divided into two broader sections namely military pyrotechnic compositions and military pyrotechnic ammunitions and devices it provides full spectrum of military pyrotechnics and a guide for all personnel involved with management of military pyrotechnic ammunitions and devices in design production inspection training and use Features Answers know what know why and know how of pyrotechnic compositions and pyrotechnic ammunitions and devices Explains various concepts and mechanisms of the military pyrotechnics Deliberates on role and characteristics of pyrotechnic compositions and its classification Discusses various factors affecting performance and some differences in military pyrotechnics Describes various methods of initiation of ignition in ammunition Elucidates basic requirements of pyrotechnic ammunitions its

development and life cycle of ammunition lots Provides classification division shelf life compatibility and nomenclature of ammunitions and devices Reviews test proof requirements of ammunitions and devices deployment and functioning defect classification sampling plan and acceptance criteria Explores latest trends in green pyrotechnics for environment friendly military pyrotechnics

**Selected Pyrotechnic Publications of Dr. Takeo Shimizu Part 3** Takeo Shimizu,1997 Papers translated from Japanese to English by Dr Shimizu includes autobiography of Topics include Theoretical Development of the Line Reversal Method for Temperature Measurement of Flames Temperature Measurement of Flames by Means of Line Reversal Method On Backgrounds of Color Flame Spectra On Flame Spectra of Red Yellow and Green Color Compositions On Flame Spectra of Blue Color Compositions On Flame Spectra of Metal Aluminum Composition On Composition Series for Practical Use

**Scientific and Technical Aerospace Reports** ,1983 Burn Rates of TiH<sub>2</sub>/KClO<sub>4</sub>/Viton and Output Testing of NASA SKD26100098-301 Pressure Cartridges ,1993 **Defence Science Journal** ,2006 **Explosives, Propellants and Pyrotechnics** A. Bailey,S. G. Murray,2000 Fully revised and updated to take account of the most recent developments in the field this useful text explains today s explosives from simple theory to practical use and considers future developments

**Pyrotechnics** Alexander Paul Hardt,2001 *Report on Kansas Grain Sorghum Performance Tests* ,1976 *41st AIAA Aerospace Sciences Meeting & Exhibit* ,2003 **Government reports annual index** ,199? **Government Reports Announcements & Index** ,1995 **32nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit** ,1996 Machine Design ,1978 **New Scientist** ,1959 **Chemical Abstracts** ,2002 *Mechanical Engineering* ,1951 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908 Energy Research Abstracts ,1990 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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