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Abstract of Published Article

Studies on compatibility of energetic materials

Maria Alice Carvalho Mazzeu*

Instituto de Aeronáutica e Espaço
São José dos Campos – Brazil
malice@iae.cta.br

Elizabeth da Costa Mattos

Instituto de Aeronáutica e Espaço
São José dos Campos – Brazil
beth@iae.cta.br

Koshun Iha

Instituto Tecnológico de Aeronáutica
São José dos Campos – Brazil
koshun@ita.br

*author for correspondence

Abstract:

The chemical compatibility of explosives, pyrotechnics studied to evaluate potential hazards when in contact storage and handling. Compatibility can be studied (differential scanning calorimetry), TG (Thermogravimetry) others. The test methods and well defined criteria are compatibility study is being accomplished. In this paper high explosives used in ammunition, RDX (Cyclo-1,3,5-trinitro-2,4,6-triazine) (Cyclotetramethylene tetranitramine) was studied with the powdered aluminum (Al), using DSC and VST methods between materials is based on a standardization agreement conclusion is that explosives and this materials are compatible. The peak of decomposition temperature of the admixture another peak appeared after the decomposition peak.

Keywords:

Compatibility, Energetic materials, Differential scanning calorimetry



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