

Title (en)

Novel composite explosives and method for making them.

Title (de)

Compositsprengstoffe und Verfahren zu ihrer Herstellung.

Title (fr)

Explosifs composites et procédé pour les fabriquer.

Publication

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Application

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Priority

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Abstract (en)

Novel composite explosives which comprise a molecular explosive and oxidizing salt combinations in intimate contact are described in this invention. The high degree of intimacy between the molecular explosive and the oxidizing salts has been attained by means of the melt-in-fuel emulsion technology. Accordingly, highly dense compounds which have a dispersed phase showing very small mean particle size are obtained. Emulsification between both phases takes place within seconds and therefore the composite explosive can be prepared by simply agitating vigorously or by injecting both molten phases through a static mixer. The method described allows one the use of a wide variety of different oxidizing salts and different molecular explosives. The final products obtained show good rheological properties and consequently admixing of additives is possible. The compounds of this invention can substitute the current army melt cast explosives and can also be applicable as boosters for industrial use.

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C06B 45/00; **C06B 47/00**

IPC 8 full level

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