Title (en)

ELECTRICAL INITIATORS USING SELF-INITIATING COMPOSITIONS AND GAS GENERATORS COMPRISING SAID INITIATORS

Title (de)

ELEKTRISCHE ZÜNDER MIT SELBSTZÜNDENDEN ZUSAMMENSETZUNGEN UND GASGENERATOREN MIT DEN ZÜNDERN

Title (fr)

INITIATEURS ELECTRIQUES UTILISANT DES COMPOSITIONS AUTO-INITIATRICES ET GENERATEURS DE GAZ COMPORTANT DE TELS INITIATEURS

Publication

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Application

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Abstract (en)

[origin: WO2006103366A2] The invention relates to a self-initiating composition for a gas generator comprising a main formulation which contains at least 20-80 mass % one type of alkali metal chlorate and 5-50 mass % energetic organic compound, preferably guanidine nitrate, and is characterised in that said main formulation also contains (a) at least 0-60 mass % one type of metal or metalloid selected from boron, manganese, cobalt and copper, (b) at least 0-60 mass % one type of metal or metal hydride selected from zirconium, titanium, TiH₂, ZrH₂, aluminium, silicium and iron, (c) at least 0-50 mass % one type of transition metal oxide, wherein the mass percentages are expressed in relation to the main formulation mass and the mass percentages of the components (a) and (c) can not simultaneously be equal to zeros. Said invention relates, in particular to self-initiating compositions whose self-initiation temperature ranges from 150 to 180 °C and which are stable during 408 hours at a temperature of 107 °C. The inventive compositions can be used for an electrical initiator and for a gas generator.

IPC 8 full level

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