Title (en)

THIN COMPOSITE EXPLOSIVE PRODUCTS AND PREPARATION THEREOF

Title (de)

DÜNNE ZUSAMMENGESETZTE EXPLOSIVE PRODUKTE UND HERSTELLUNG DAVON

Title (fr)

PRODUITS EXPLOSIFS COMPOSITES DE FAIBLE EPAISSEUR ET LEUR PREPARATION

Publication

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Application

EP 15804911 A 20151120

Priority

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Abstract (en)

[origin: WO2016079453A1] The present invention relates to composite explosive products and the preparation thereof. Said products have: - a composition, expressed in weight percentages, which contains: from more than 85 to 92%, advantageously from 88 to 90%, of organic energetic charges; said organic energetic charges a) being selected from octogen (HMX), hexogen (RDX), hexanitrohexaazaisowurtzitane (CL20) and penthrite (PETN) charges and mixtures thereof and b) having a particle size distribution with a D90 value of less than 15 µm and a D50 value of less than or equal to 5 pm; and from more than 7 to 12%, advantageously from 8 to 10%, of a polymeric rubber selected from polyurethane-polyester rubbers, polyurethane-polyether rubbers and mixtures thereof, the number-average molecular weight of which is greater than 20 000 g/mol and the Mooney viscosity of which is between 20 and 70 ML (5 + 4) at 100°C; and - a thickness of from 0.4 to 5 mm, advantageously from 1 to 2 mm. Said products may in particular consist of miniaturized systems for multipoint initiation of explosive charges.

IPC 8 full level

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