

Title (en)
METHOD OF EXTINGUISHING A FIRE AND A FIRE-EXTINGUISHING SYSTEM

Title (de)
FEUERLÖSCHVERFAHREN UND FEUERLÖSCHSYSTEM

Title (fr)
PROCEDE D'EXTINCTION D'INCENDIES, COMPOSITION D'EXTINCTION DU FEU ET SYSTEME ANTI-INCENDIE

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Abstract (en)
The disclosure relates to a method of extinguishing fires, a fire-extinguishing compound and a fire-extinguishing system. The proposed method involves the preparation of a fire-extinguishing composition containing an oxidant and a fuel-binder, placing the composition in the area of the seat of the fire, initiating a sustainable fuel oxidising reaction producing combustion products in finely dispersed aerosol form, and then allowing the aerosol medium to act on the seat of the fire. According to the invention, the compositions in the aerosol products of combustion act in the immediate area of the fuel oxidation reaction to reduce the level of toxins and lower the equilibrium temperature of complete oxidation of the fuel-binder combustion products. To achieve this, a reagent is introduced into the aerosol combustion products of the composition which promotes a reduction in the equilibrium temperature of the full oxidation reaction of the fuel-binder combustion products. The reagent used consists of thermal disintegration products of a low-energy supplementary fuel. Also proposed is a compound suitable for the proposed method. The system is provided with a reactor containing means for reducing the level of toxins in the area of combustion of the composition.

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