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(54) Title: COMPOSITION FOR COOLING AND SIMULTANEOUS FILTRATION OF THE GAS-AEROSOL FIRE-EXTINGUISHING MIXTURE

(57) Abstract: The invention relates toxcompositions for cooling and simultaneous filtration of the gas-aerosol fire-extinguishing mixture that is formed during burning of pyrotechnical charges in generators. In this composition, basic magnesium carbonate and/or carbonates of group I and II metals are used as the heat-absorbing fillers; nitrate, potassium perchlorate or mixtures thereof are used as the oxidizer; graphite, sodium stearate or mixtures thereof are used as the production process additives; additionally, potassium chloride, alkali metal silicate of the general formula Me2O.mSiO2, where Me is potassium or sodium, m is the silicate variable in the amount of 2.1-3.8 or a mixtures thereof are used as the inorganic binder; the sorbent selected from the series of zeolites, silica gels or mixtures thereof. The tablets, granules produced from the composition have high levels of strength and efficiency of cooling the gas-aerosol compounds which is formed during burning of the pyrotechnical charge at high speed 5-12 mm/sec and high combustion temperatures ~ 1500 deg C.

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