

SCIENCE OF MATERIALS DEPARTMENT AND CHEMICAL
ENGINEERING
MATERIALS LABORATORY
C.SO DUCA DEGLI ABRUZZI – TORINO –

TEST REPORT LM.DSMIC N.13/108/03

Mssrs EURO SPARE PARTS s.r.l.
Via colombo, 1
10128 Torino

Customer's request: 03/09/03

Received material: 03/09/03

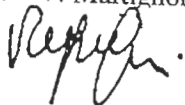
Samples identification/protocol number: Ns. 759 dated 03/09/03

Test subject: Fire-extinguisher material analysis

- Notes: combustion smokes do not contain halogen (chlorine, bromine, iodine); smokes are non-toxic and eco-compatible

PERSON IN CHARGE FOR THE TEST

P.I. V. Martignoni



P.I. A. Cortellazzi



DEPARTMENT DIRECTOR

Prof. P. Spinelli



Issue date: 02/10/03

"The results refer exclusively to the test samples."

"The partial copy of the current report is forbidden."

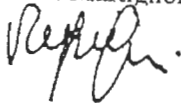
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The FTIR spectrum of the sample extracted with solvent shows the peculiar peaks of a phenol/resin with a low molecular weight.

The diffractometrical analysis of the pulverized sample underlines the presence of high quantity of KNO₃.

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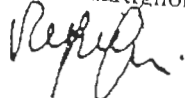
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The EDS spectrometric analysis carried out by scanning electron microscope has shown the presence of C, O, N and K.

Using the SPME method the GC/MS analysis of the sample in a watery state has been carried out to underline the presence of nitrogenous organic compound. Analyzing the mass spectrum an organic oxidizing.

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Our MANGIAFUOCO that gives out potassium aerosol, works taking away oxygen from the fire, breaking off its autocatalysis reaction chain. It is clear that the product is particularly suitable to be used in closed rooms or sheltered where the exchange of oxygen in the atmosphere is slower. Since the potassium aerosol can not by its nature reduce the temperature of the fire, in case of embers it is inclined to, after few seconds from the extinction, add fuel to the flames. Actually in case of class A fires (wood, paper, ecc..) all the organizations preventing fires advise to use water as extinguishing agent.

On the contrary our flame inhibitor can be employed perfectly to extinguish class B and C fires. Actually in this class are included fire typologies the breaking out reasons of which are the fuel and the supporter of combustion (oxygen) reducing at the least the heat factor.

This is the reason why we required and obtained the specific class B homologation. With regard to the C class do not exist classification degrees for it and as a consequence do not exist specific homologations.

It is true, however, that in A class, in particular environmental conditions, MANGIAFUOCO shows its usefulness.

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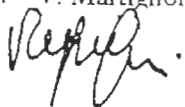
Received material; 03/09/03
Samples identification/protocol number: Ns. 759 dated 03/09/03

Test subject: Fire-extinguisher material analysis

Notes: Functionality check: excellent

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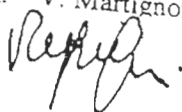
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