

From: ACO M REED, Defence Fire Services



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Our Reference: D/D SEF Pol/5/3/22

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Dear Alan

MAGNESIUM AND FUEL TRIALS AT 3%. - 'FIRESTOPPER 40002' AB LIQUID

Having completed our first series of trials on magnesium swarf particulate (powdered magnesium), with the results being quite amazing, I feel that we have now entered another dimension in 'one stop shop' fire fighting.

Being unfamiliar with this particular type of magnesium and more familiar with magnesium alloys, I was impressed with the extinguishing capabilities of 3% Firestopper AB on a volatile metal powder that you would normally expect to explode and continue to burn with a violent reaction to any wet fire-fighting agent. Our trials proved the opposite on this occasion, with only marginal spalling of magnesium powder initially, followed by a sudden drop in temperature and burning. This, when dealing with magnesium fires is a break-through and a new concept in tackling (endothermic) water reactive burning metals.

Having now satisfied ourselves that Firestopper can comfortably work at 3% (97% water to 3% concentrate) bringing the product into line (from a cost perspective only) to that of top quality non-green conventional AFFF & FFP foams will add to its attraction. Attached for your retention are copies of my trial report and assessment on the product over the two days of trials. At your earliest convenience, any views and comments you may have on subject trials would be welcome.

Regards

Miko Reed