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Phosphine Evolution Control in Red Phosphorus Munitions

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Abstract: Several desiccants and sorbents were investigated for **reducing** or eliminating corrosion in **red phosphorus** munitions. It was shown that corrosion will not occur in the absence of moisture. Moist air and phosphine from oxyacids corrode the electrical components of the munition. Aluminium silicate clay was found to be a very effective desiccant for moisture, and activated carbon was found to be an excellent sorbent for phosphine. The use of packets of desiccant and sorbent in a perfectly sealed munition round or carrying case will provide a non-corrosive environment. Phosphine, Oxyacids, **Red phosphorus**, Desiccant, Smoke munitions, Sorbent, Gas chromatography, Activated carbon, Phosphine capacity, Reaction chamber, Dessicant capacity. (jes)

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