

# THE LIQUID FIRE BOMBS

WEAPON OF "FRIGHTFULNESS" IN MODERN WARFARE.

No Instrument of Present day More Horrible Than the Destructive Incendiary Bomb.

The wonders of chemistry have lent descriptive inspiration to the pen of many a writer. But mankind, to get a notion of the horrors of chemistry, has had to wait for the present war. The conflict now in progress is, mainly, as one might say, a warfare of the chemists. Without their diabolical products, ranging all the way from high explosives to poison gases, it would have few of the characteristics of ultra-frightfulness that render it unique in the history of international struggles.

But of all the instruments of destruction used in this war, there is none more horrifying than the so-called "incendiary bomb," which sets in which spreads flame in a manner so terrific that three or four such gravimetric projectiles dropped the other day from an aeroplane (undoubtedly German) burned up the whole of a peaceful Dutch village in a few minutes.

Now, what is this fearsome stuff which such bombs are loaded? A new chemical compound? Not at all. What they contain is simply a mixture of two of the most harmless things in the world—oxide of iron (which is simply iron rust) and powdered aluminum.

An Infernal Compound. When these two innocent substances are mixed together the result is a compound truly infernal in its potentialities for mischief. It is not an explosive, but if set on fire, it burns with an intensity that is positively appalling. Nothing will put it out; no quantity of water has any effect upon the raging flames it engenders.

This is the material used for loading incendiary bombs. It is ignited in such projectiles by a mercury-film-battery that sets off a fuse containing powdered magnesium—the stuff photographers employ for flashlights. These bombs are thin shells of steel iron—mere containers for the mixture before described. They are so contrived that the fuse is instantly ignited when they strike. When the shell is melted by the heat generated within it and a flood of fiercely burning metal is scattered in all directions.

All of this seems rather extraordinary, and it is worth explaining. Oxygen has an affinity for iron, readily combining with the latter which is the reason why iron is liable to rust. This rust is a chemical compound of iron and oxygen; in other words, oxide of iron.

But oxygen has a much greater affinity for aluminum. And so, when the two metals are powdered and mixed together and heat is applied the iron flies out of the iron rust and combines with the aluminum.

"Fiery Dragon" of Middle Ages. The process is started in the bomb by the burning magnesium. And then oxygen passes out of the iron and the aluminum so rapidly, that it almost ignites the mixture at a temperature of 3,500 or 4,000 degrees Fahrenheit—which means a tremendous combustion. The crust of aluminum and iron burns so much tinder—though such a word of putting it is absurdly feeble. The present war has been conspicuously marked by reversions to ancient methods of fighting. In this line the incendiary bomb offers an excellent illustration. It is in effect merely an adaptation of an idea utilized by the crusaders—in their warfare with the sappers of the Middle Ages.

The instrument of war most dreaded by the Crusaders, as they found it in the hands of the Turks, was the "fiery bomb"—a projectile that flew through the air "like a fiery dragon," they described it and set fire to wherever it touched. Sometimes it was fired with iron bolts, by which it set to buildings.

It was one of the ways in which Saracens employed the celebrated "fiery fire"—an inflammable compound which is understood to have been a mixture of petroleum, sulphur and resin. The chief horror of it, that the Crusaders' point of view, was that it was unquenchable. Mere water had no effect upon it. Hence they were of the opinion that it must be of diabolical origin.

# The Markdale STANDARD

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