

Oakoal Garbage Fuel

A short description of the objects and process of converting the organic or disease-breeding matter in municipal garbage and waste into a fuel, known in its manufactured form as "Oakoal."

OBJECTS

The fundamental and primary object of "Oakoal" is sanitation.

In greatly assisting to solve the problem of municipal sanitation, "Oakoal" does so with due consideration to economics. An economic gain is not only what is earned—what is saved is just as important.

In addition to "Oakoal" being acknowledged one of the best domestic fuels by those who know it, will assist in eliminating municipal fuel worries.

PROCESS

While an "Oakoal" plant is in reality a fuel manufacturing plant, it is at the same time a conservation and salvaging plant, performing the same municipal duties as a reduction plant in the salvaging of inorganic matter, but goes farther and eliminates the destructive features by manufacturing the organic matter into fuel.

The problem of collecting and hauling city waste to the plant still rests with the municipality, consequently there is no reduction in objectionable odors until the garbage and waste reach the "Oakoal" manufacturing plant.

From the wagons it is dumped into a receiving hopper, where it is immediately treated with a disinfectant and deodorant. From the hopper it is carried on a distributing or sorting belt, where the inorganic and organic matters are separated; the organic matter being carried to a hammer masher or grinder, where the mass is prepared for the centrifugal dryer, without destroying its fibrous qualities. It then passes into the dryer, and in going through the dryer, which is specially designed and constructed for the purpose, the required amount of moisture is removed, and at the same time all (or nearly all) greases or oils. From the dryer it passes through a specially designed and constructed mixer, and, without anything additional added, is fed to a second mixing machine in which carbon is added, usually in the form of bituminous dust, anthracite dust, coke breeze, or some combustible dust of this nature, and thoroughly mixed. As it passes out it is again disinfected and waterproofed with a liquid having an asphaltic base, such as tar, water tar, pitch, residue from oil refineries or something of this nature, which, while not necessary as a binder, acts as one, in addition to protecting the product from decomposing, should it be exposed to excessive moisture before being used.

The "Oakoal," which at this point is now a conglomerate of refuse, carbon and refinery product wastes, proceeds through a pug mill to a briquetting machine, from which point it is taken through a surface drying dryer and emerges ready for shipment and immediate use, or for storage in the ordinary way until required.