

発明名称： ナノメートルの熱触媒を利用し、焼却炉で発生するダイオキシンを
抑圧する方法

**Method for using nanometer thermal catalyst to suppress production
of dioxin by incinerator**

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説明

A method for using nanometer thermal catalyst to suppress production of dioxin by incinerator. It is known that nanometer materials under high temperature will all generate surface free-radicals based on an pioneer study of nanometer physics theories, such that they are featured with strong chemical catalyst effects. Thus, nanometer powders consisting of particles of metal oxides, metal carbides or metal sulfides having diameters less than 1000 nm are dispersed in heavy oil to produce nanometer heavy oil, which is then splashed over solid wastes or mud, or directly introduced into liquid waste (where the ratio of nanometer powder to waste by weight is more than 1:3000, and the ratio can be adjusted according to the types of wastes). The wastes that have been treaded according to the above procedures are then introduced into the incinerator for combustion. The heat released by combustion can then cause surface free-radicals to be formed over surfaces of the nanometer powder thereby decomposing dioxin produced in the incinerator.



