

## **Default name: Appropriate for incineration with energy recovery**

**Alternate name:** Can be incinerated with energy recovery

**Used in calculation for the EPI:** Can be incinerated with energy recovery

### **Property method description:**

The definition of a material appropriate for incineration with energy recovery can be divided in two parts:

1. The material does not contain toxic substances such as heavy metals or halogenated substances. Combustion of materials containing halogens can result in toxic compounds, like dioxins and furans, which are difficult to separate and destroy in an incineration/combustion process. Combustion of materials containing heavy metals can result in spreading/distribution of the toxic compounds. The environmental impact of incinerating these materials is therefore high.
2. The energy needed for the incineration process of the material is lower than the combustion heat released, meaning that combustion of the material can generate energy through direct incineration with or without other waste but with recovery of the heat. This means that e.g. metals are not appropriate for incineration with energy recovery.

The indicator applies to the recovery operation R1 - Used principally as a fuel, or other means to recover energy - of the Council Directive 75/442/EEC.

Polycyclic aromatic compounds are included as combustible. The Directive 2000/76/EC does not restrict these substances, but EU member states may have emission limit values for PAHs.

The Directive 2000/76/EC regulates emission limits as well as operating conditions for incineration and co-incineration plants. Installations for the incineration of municipal waste with a capacity exceeding 3 ton per hour and installations for the disposal or recovery of hazardous waste with a capacity exceeding 10 ton per day, are included within the scope of the said Directive, with some exceptions described in Article 2, paragraph 2.

The procedure for acquiring material property data will be:

- Identify materials containing halogenated substances and/or heavy metals.
- Acquire information about the material's combustibility.

**Value type:** yes/no

**Unit:** -

**Unit specification:** Comment: Do not require a unit.

### **Property reference:**

Directive 2000/76/EC of the European Parliament and of the Council of 4 December 2000 on the incineration of waste. Council Directive 75/442/EEC of 15 July 1975 on waste.

### **Modeller:**

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