

ANALYSIS OF TOXIC/HAZARDOUS WASTES - WASTE COMBUSTION



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ABSTRACT

The Department of Chemical Engineering has extensive experience in the determination of the toxicity of wastes, considering several tests presented in the following sections. The results obtained are discussed in accordance with different legislations: regions, state, European Union and USA. The determination of the toxic by-products that can be evolved in the combustion of wastes is also interesting on considering alternatives for the treatment of wastes: thermal treatment or disposal in controlled landfills under special conditions.

The procedure proposed can be applied to many wastes: solid, semi-solid and liquids.

The Department of Chemical Engineering of the University of Alicante is involved in carrying out these kinds of analysis and training activities.

ADVANTAGES AND INNOVATIVE ASPECTS

The characterization of toxic/hazardous wastes can be a hard task when carrying out all the methods proposed for toxic/hazardous materials. Nevertheless, the samples can be classified when an extensive chemical characterization of the waste and the leaching under different conditions are performed.

MARKET APPLICATIONS

The characterization methods presented previously are applicable to any industrial waste, chemical sludge and sewage sludge, where the toxicity depends on the chemical components

COLLABORATION SOUGHT

- Characterization of chemical wastes by the methods presented previously.
- Training in this type of analysis.