Application information

TMT 15® - EU STUDY

Info 17 E - Precipitation of heavy metals in flue gas wash water

SOURCE

Technico-Economic Study on Measures to Reduce or to Remove Waste Water From Incineration of Dangerous and Municipal Wastes
European Commission, Brussels / Study Contract B91 / B4-3041-8136 © ECSC-EC-EAEC, Brussels l Luxembourg, 1996

SUMMARY

Incineration technologies are first presented, and following this the flue gas treatment methods “dry”, “semi-dry” and “wet” are compared and evaluated.

CONCLUSION

Wet cleaning is classified as an essential element of the best-available and proven technology. It is judged to be the only technology that makes it possible to separate out acids and volatile metals also with regard to future standards in air pollution abatement as well as under the aspect of residue treatment and separation.

TMT 15® for heavy metal precipitation is mentioned by name alongside sodium sulphide, with a preference for TMT 15® being indicated, since metal-TMT precipitation products are classified as insoluble precipitates with low elution characteristics.

The documentation confirms the high efficiency of TMT 15®. Tables show the concentrations of heavy metal residue for the various quantities used as well as mercury precipitation in solutions with a high chloride content in comparison with sodium sulphide. Illustrations are provided showing the structure and reaction of TMT 15® as well as applications for the treatment of flue gas wash water.

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