

DIMETHYL SULPHIDE, DIMETHYL DISULPHIDE

GENERAL

These compounds are formed during kraft cooking by reaction of sodium hydrogen sulphide in the liquor with lignin in the wood chips. Dimethyl sulphide and dimethyl disulphide are carried in black liquor and can be released in pulping and evaporator areas. Emissions from digesters, chip steaming vessels, brownstock washers, and pulp storage tanks often contain higher concentrations of dimethyl sulphide than any other total reduced sulphur (TRS) gas. Dimethyl disulphide is usually not detectable in most mills except during batch digester loading and blowing. Typical concentrations measured by gas chromatography at seven B.C. kraft mills in 1979-81 are shown