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Boiling point rise of spent sulfite liquors

Scope

This Technical Information Paper presents the increase in boiling point of a variety of sulfite liquors and wood species as a function of the total solids concentration in the spent liquor.

Safety precautions

Sulfur dioxide is a toxic gas that can cause suffocation and death. Gas masks and other safety devices, as prescribed by the industrial and governmental agencies, should be available at all times when dealing with SO₂ and its various compounds. Methanol and ethanol are toxic and flammable solvents and should be similarly handled. Various chemicals that are used for testing SO₂ may be toxic and should not be inhaled or ingested.

Keywords

Sulfur dioxide, Sulfite liquors, Bases, Sulfite pulping, Bleaching, Chemical pulps, Semichemical pulps, Dissolving pulps, Lignosulfonates, Neutral sulfite pulping, Alkaline sulfite pulping.

References

1. Han, S. T., TAPPI 40(11):921 (November 1957).
2. Moore, H. K., Trans. AIChE 15:245 (1923).

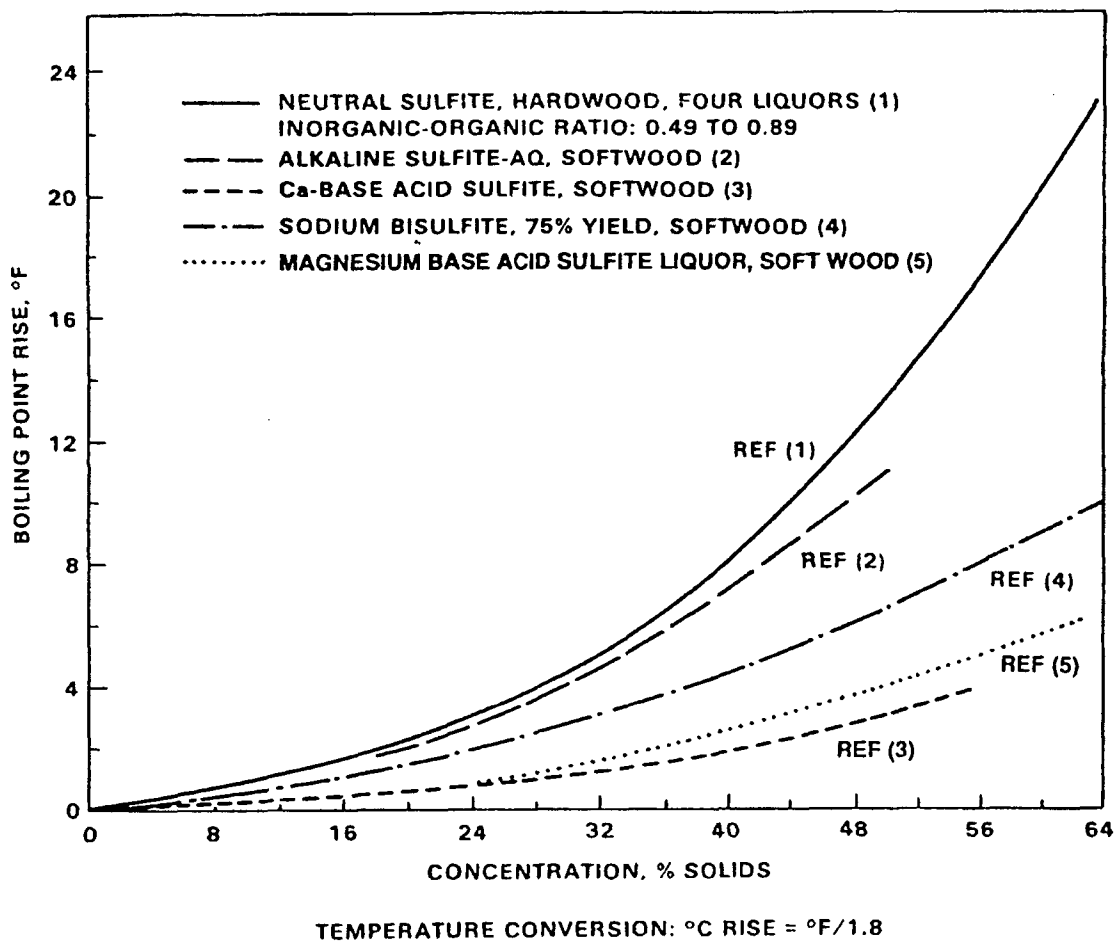
Additional information

Units on graphs have been modified to meet TAPPI recommendations for SI format.
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TIP Category: Data and Calculations
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"The properties of spent liquor will vary with wood species, base, cooking process used, etc. and therefore should be used with caution. This figure should be used as a guide only."

REFERENCE

- (1) Han, S.T., Tappi 40(11):921(November,1957)
- (2) Heinen, H. Aqua-Chem, Inc.; Unpublished Data (1986)
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