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Solubility of sulfur dioxide in magnesium bisulfite solution

Scope

The solubility of SO₂ in magnesium bisulfite liquors is given for 6 temperatures as a function of the partial SO₂ pressure in a closed vessel and the quantity of total SO₂ in the liquor contacting the gas.

Safety precautions

Sulfur dioxide is a toxic gas that can cause suffocation and death. Gas masks and other safety devices, as prescribed by industrial and governmental agencies, should be available all times when dealing with SO₂ and its various compounds. Various chemicals that are used for testing SO₂ may be toxic and should not be inhaled nor ingested. Ammonia is a suffocating agent, can be lethal, and should be handled with the same basic precautions as SO₂ is handled.

Content

The 6 figures list the quantities of combined SO₂ in the magnesium bisulfite liquors [Mg (HSO₃)₂] from 0 to 5 g combined SO₂/100 g of H₂O, and for 5°, 15°, 25°, 35°, 50°, and 60° C.

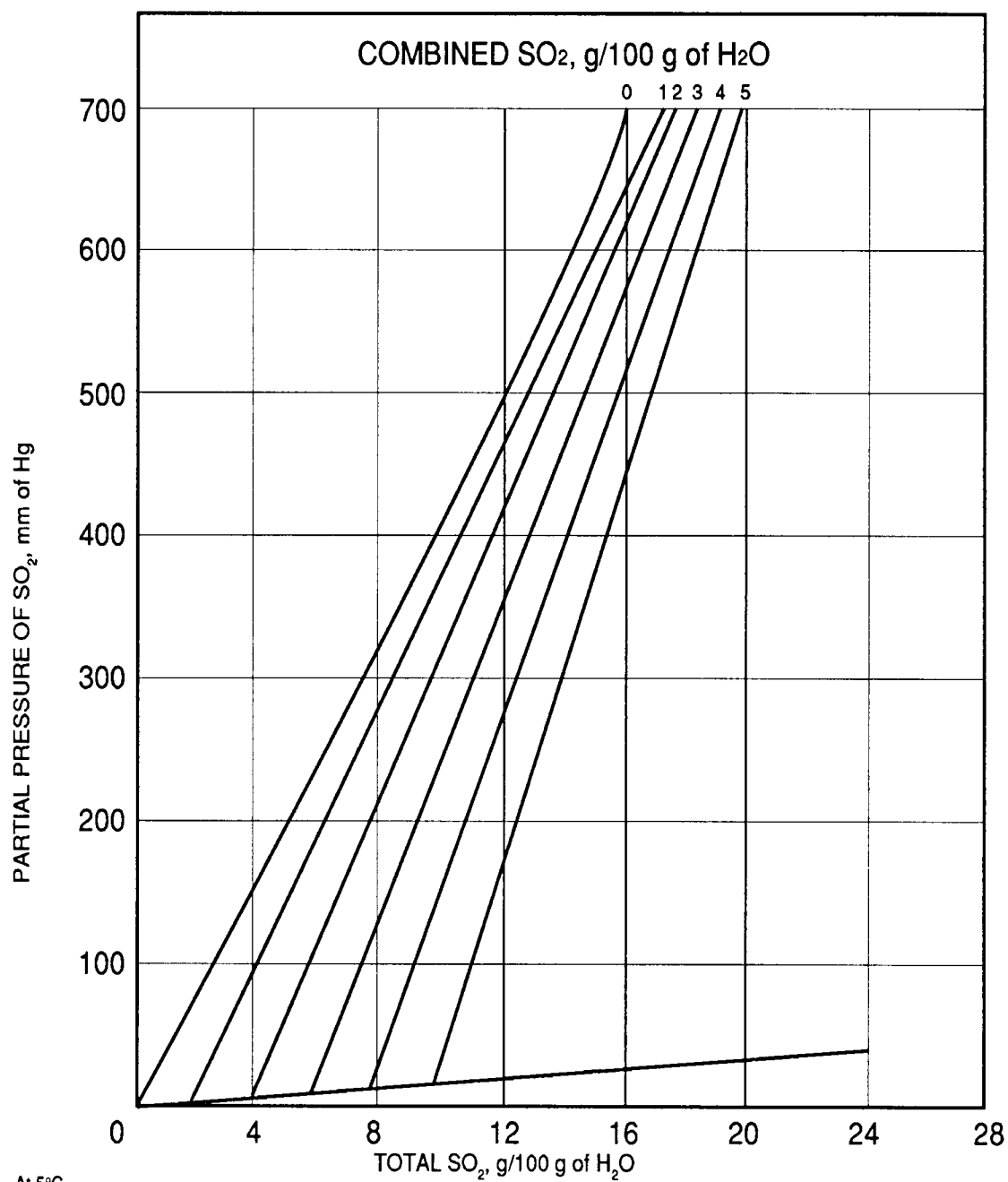


Fig. 1. At 5°C.

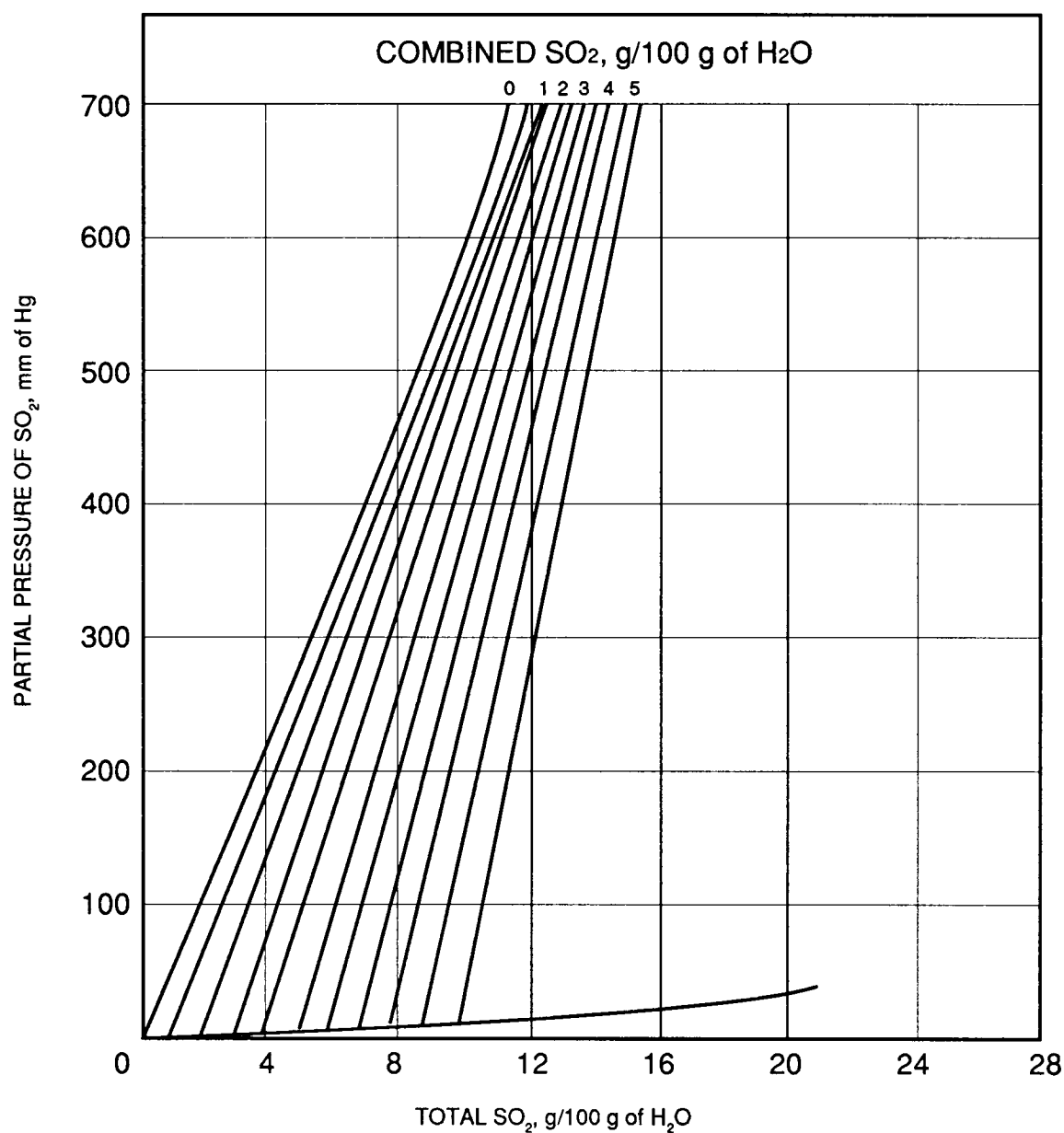


Fig. 2. At 15°C.