

METHOD OF PREVENTING METAL CORROSION IN COOLING WATER SYSTEM

ABSTRACT

To effectively inhibit corrosion of a metal member in a cooling water system in which a non-phosphorus, zinc treatment is performed. The following components (A), (B), and (C) are caused to be present in a cooling water system in which a non-phosphorus, zinc treatment is performed. (A) A copolymer of acrylic acid and a sulfone group-containing monomer, in which, preferably, the sulfone group-containing monomer is 2-acrylamide-2-methylpropanesulfonic acid and/or 3-allyloxy-2-hydroxypropanesulfonic acid, the molecular weight is 500 to 50,000, and the molar ratio of acrylic acid to the sulfone group-containing monomer is 7:3 to 9:1. (B) A copolymer of maleic acid and isobutylene, in which, preferably, the molecular weight is 10,000 to 50,000, and the molar ratio of maleic acid to isobutylene is 5:5 to 8:2. (C) A zinc compound.

Representative Drawing: Fig. 2