

ABSTRACT

Corrosion is defined as the process of destruction of the metal surface caused by a chemical reaction with its environment. Factors that influence the occurrence of corrosion, among others, the existence of redox reactions, temperatures, impurities, in contact with the electrolyte, pH and metallurgy. On the galvanized pipe material corrosion testing using a solution of H₂SO₄ + H₂O as corrosive media. Corrosion testing solution by taking a sample piece Galvanized Pipes and using H₂SO₄ + H₂O solution is stirred together with pieces of galvanized pipe sample using H₂SO₄ + H₂O with a variation of 10% + 90%, 20% + 80% and 30% + 70% over 90, 120 and 150 Minutes. From the test results of corrosion, corrosion occurs as seen through dye testing. The influence of pH and chloride penetration is the cause of corrosion. Moreover mixture perendamam larutan and long time when testing is also one factor corrosion. During the corrosion test, specimens lose up from 0.38 to 0.88 grams.

Keywords: Galvanized Steel, H₂SO₄ solution, immersion / Immersion, Rain Corrosion, Corrosion rate.