

BAB V

KESIMPULAN DAN SARAN

V.1. Kesimpulan

Berdasarkan hasil penelitian dan pembahasan, maka dapat disimpulkan bahwa konsentrasi *crude* tanin dalam etanol menentukan efisiensi kerja inhibitor. Pada konsentrasi *crude* tanin 200 g/L memberikan efisiensi kerja inhibitor yang paling tinggi yaitu 96 % dalam media korosi NaCl 30.000 ppm selama waktu korosi 10 hari. Sedangkan dalam media korosi HCl 0,4 M dengan konsentrasi tanin 200 g/L memberikan efisiensi kerja inhibitor sebesar 94 % dengan waktu korosi 10 hari. Besarnya efisiensi kerja inhibitor ini baik dalam media korosi asam HCl maupun larutan NaCl menunjukkan bahwa *crude* tanin sebagai *green* inhibitor dapat diaplikasikan penggunaannya untuk menghambat korosi logam tembaga yang tercelup di perairan yang berkadar garam NaCl dan asam yang tinggi misalnya di daerah pantai dan area industri kimia.

V.2. Saran

Perlu adanya penelitian lebih lanjut mengenai aplikasi *crude* tanin sebagai inhibitor dalam memperlambat korosi logam yang pemanfaatannya di daerah pantai dan area industri kimia;

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