

**PEMANFAATAN BENZILTRIETILAMMONIUM KLORIDA SEBAGAI
PENGHAMBAT LAJU KOROSI PADA LOGAM SENG (Zn) DAN TEMBAGA (Cu)**

OFI RULYASARI

Dr. Ir. Suyanto, M.Si

KKC KK MPK 65 11 Rul p

ABSTRACT

This research has been held to investigate the benefit of benzyltriethylammonium chloride (TEBA) as corrosion inhibitor on zinc and copper metal. TEBA compound was the product of benzyl chloride and triethylammonium. The mechanism of this research was adsorption inhibition. Corrosion was inhibited with the producing of thin layer which getting adsorption on the metal surface. The used concentrations of TEBA on this research were 0,1 M, 0,25 M, and 0,5 M. The result showed TEBA 0,5 M had corrosion rate of zinc 331,2985 mm/day with inhibition efficiency 87,1092%. This result showed that higher concentration of TEBA gave lower corrosion rate effect and the inhibition efficiency got higher.

Keywords: *efficiency inhibisi, TEBA, adsorpsi*

ABSTRACT

This research has been held to investigate the benefit of benzyltriethylammonium chloride (TEBA) as corrosion inhibitor on zinc and copper metal. TEBA compound was the product of benzyl chloride and triethylammonium. The mechanism of this research was adsorption inhibition. Corrosion was inhibited with the producing of thin layer which getting adsorption on the metal surface. The used concentrations of TEBA on this research were 0,1 M, 0,25 M, and 0,5 M. The result showed TEBA 0,5 M had corrosion rate of zinc 331,2985 mm/day with inhibition efficiency 87,1092%. This result showed that higher concentration of TEBA gave lower corrosion rate effect and the inhibition efficiency got higher.

Keywords: *efficiency inhibisi, TEBA, adsorpsi*

