

QUALITY **Q** BORATE

C O M P A N Y

The corrosive effects of BoraSol WP, Disodium Octaborate Tetrahydrate and BoraSol MC (5% solution BoraSol MC in 15% Borasol WP) , on various metals have been evaluated according to AWWA Test Procedure E 12-08, *Standard Method of Determining Corrosion of Metal in Contact with Treated Wood*.

BioSolution Laboratories (Chagrin Falls, Ohio) tested 1" x 3" samples of Southern Yellow Pine Brush Treated to the point of refusal with Quality Borate's BoraSol WP, Disodium Octaborate Tetrahydrate (15% DOT) together with BoraSol MC (5% Maquat LC 12S-50%). The result obtained from the calculations are as follows:

Material	Corrosion Rate (mpy) ¹
SAE 1018 Steel	14
CDA 230 85-15 Red Brass	0.31
AA 2024-T3 Aluminum	1.77
G-90 Galvanized SAE 1018 Steel	3.63

¹ mils/year

The test results show ratings of Good, Outstanding or Excellent when referenced to the scale of Corrosion Resistance as cited below from Mars G. Fontana's Corrosion Engineering, 3rd Edition, McGraw Hill, 1986.

Corrosion Rating Scale of Resistance		
	mpy ¹	mm/y ²
Outstanding	<1	<0.02
Excellent	1-5	0.02-0.1
Good	5-20	0.1-0.5
Fair	20-50	0.5-1.0
Poor	50-200	1.0-5.0
Unacceptable	200+	5.0+

¹ mils/yr

² millimeters/yr