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Appendix

Table 8.1 : Corrosion rate calculation in weight loss methods

	$\Delta(W1-W2)(mg)$	Time(hours)	$\Delta(W1-W2)mg$	87.6*weight loss	Area*Time*Density	C.R
1	0.1736	96	173.60	15207.40156	1507.2	10.0898
2	0.2789	168	278.92	24433.5272	2637.6	9.2635
3	0.3286	216	328.57	28782.71101	3391.2	8.4875
4	0.3895	264	389.54	34123.88217	4144.8	8.2329
5	0.4629	312	462.89	40548.88698	4898.4	8.2780
6	0.4442	360	444.23	38914.5026	5652	6.8851
7	0.4847	408	484.67	42456.93998	6405.6	6.6281
8	0.5264	456	526.43	46115.33032	7159.2	6.4414
9	0.5248	504	524.79	45971.5406	7912.8	5.8098

Table 8.2 : Weight loss calculation

	W1(mg)	W2(mg)	(W1-W2)mg
1	16.4982	16.0430	0.4552
2	17.2073	16.7389	0.4684
3	17.1908	16.6186	0.5722
4	17.0572	16.6714	0.3858
5	17.27	16.8983	0.3717
6	17.0094	16.5104	0.4990
7	16.76	16.2241	0.5359
8	19.2302	18.9579	0.2723
9	16.287	15.8898	0.3972
10	16.6689	16.3834	0.2855
11	16.6838	16.2906	0.3932
12	15.9271	15.6417	0.2854
13	16.8453	16.6636	0.1817
14	18.8043	18.3469	0.4574
15	17.5516	17.0347	0.5169
16	17.3295	17.1640	0.1655
17	17.2284	16.7952	0.4332
18	15.9971	15.4466	0.5505

Table 8.3 : Weight loss vs. Time

Time(hours)	$\Delta(W1-W2)$ (mg)
96	0.1736
168	0.2789
216	0.3286
264	0.3895
312	0.4629
360	0.4442
408	0.4847
456	0.5264
504	0.5248

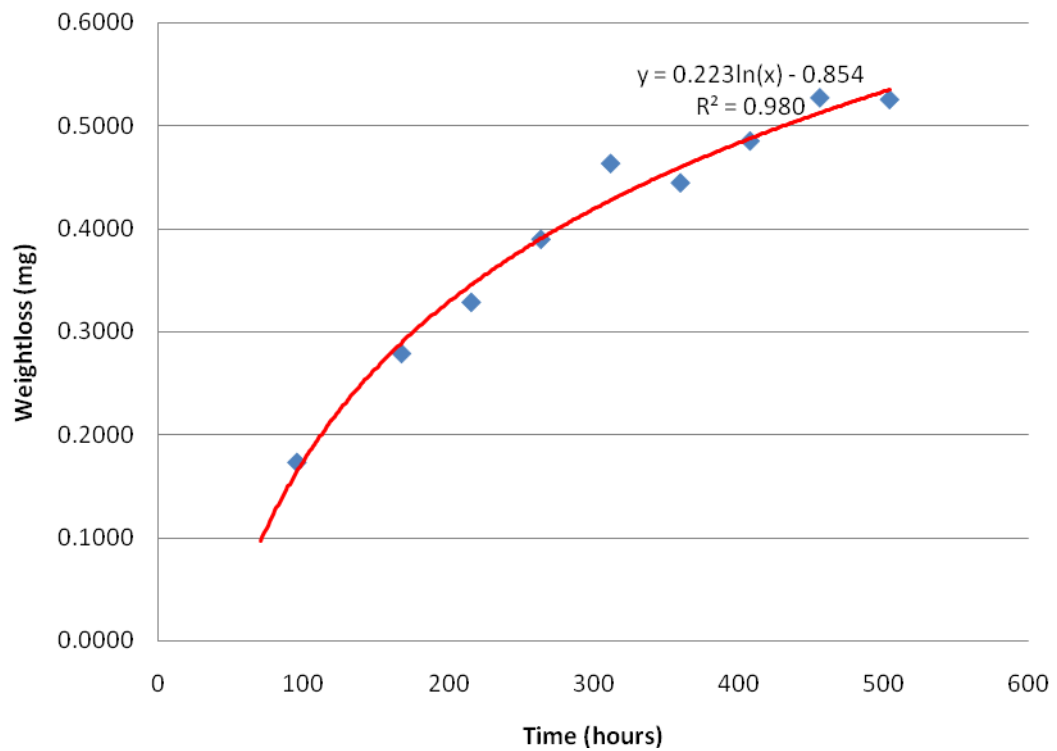


Figure 8.1: Weight loss vs. Time