

Examining corrosion inhibition of Suprabha Film

Background: Siddeshwar Inds. wanted the film manufactured by Suprabha examined for the presence of corrosion inhibitors.

Purpose: Evaluate if Suprabha film will inhibit corrosion.

Materials: Carbon Steel Panels
Copper Panels
Suprabha film-5 mil
Plain PE -5 mil
Razor Blade test kit

Method: Razor Blade Test
FT-IR spectra

Procedure: For the above test all standard procedures were followed.

Results:

Razor Blade Test

Material	Thickness (mils)	Panel Type	Panel 1	Panel 2	Panel 3
Suprabha Film	5	Carbon Steel	Fail	Fail	Fail
Plain PE	5	Carbon Steel	Fail	Fail	Fail
Suprabha Film	5	Copper	Fail	Fail	Fail
Plain PE	5	Copper	Fail	Fail	Fail

Conclusion: The test results determined that the Suprabha film did not inhibit corrosion on carbon steel and copper because it failed the tests. Based on FT-IR test results, Suprabha Film doesn't contain any corrosion inhibitors, or a very insignificant amount.



