Green-Bond Fe

Green-Bond Fe is a phosphate-free, alkaline liquid concentrate designed to clean and pre-treat ferrous metals in a single step. It is formulated to prevent flash rusting with its exceptional corrosion inhibiting properties. Green-Bond Fe improves impact resistance and flexibility of applied paint films, and prevents under rusting from scores or chips. Green-Bond Fe can also be used as a cleaner and etchant for high pressure/hot water or steam generator systems. Green-Bond Fe should be applied from the bottom-up and side-to-side to prevent surface streaking. It is a single step system and rinsing is not required.

Features/Benefits

- Alkaline.
- Phosphate-free.
- Exceptional corrosion resistant properties.
- Effectively cleans and prevents flash rusting on steel substrates in one step.
- Improves impact resistance and flexibility of applied paint films.
- Prevents the under-rusting of paints if the paint film is chipped or scarred.
- Rinsing is not required.
- Economical single step system.
- Liquid material for ease of use.

Operating Conditions

Concentration	1 to 3 % by volume Green-Bond Fe
Temperature	48 to 82 ºC (120 to 180 ºF)
Time	1 to 2 minutes

Green-Bond Fe

Analysis of Green-Bond Fe – Burette Titration Method

Apparatus: 50 mL Volumetric Pipette, Type A
50 mL Burette, Class A
250 mL Erlenmeyer Flask

Reagents: 1 % (w/v) Phenolphthalein Indicator solution
1 N Hydrochloric Acid (HCl)

Procedure:

1. Pipette a 100 mL sample of Green-Bond Fe solution into a 250 mL Erlenmeyer flask.
2. Add 3 – 5 drops of Phenolphthalein Indicator solution.
3. Titrate with 1 N HCl from pink to a colourless endpoint.
4. Calculation:

(mL of 1 N HCl titrated x 5.9) – 0.15 = % by volume Green-Bond Fe

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Analysis of Green-Bond Fe – Dropping Bottle Method

Apparatus: 100 mL Graduated Cylinder
250 mL Erlenmeyer Flask
125 mL Dropping Bottle

Reagents: 1 % (w/v) Phenolphthalein Indicator solution
1 N Hydrochloric Acid (HCl)

Procedure:

1. Measure a 100 mL sample of Green-Bond Fe solution with a 100 mL graduated cylinder and add to a 250 mL Erlenmeyer flask.
2. Add 3 – 5 drops of Phenolphthalein Indicator solution.
3. Add dropwise 1 N HCl from a dropping bottle while counting the drops and swirling the solution.
4. Stop adding when the colour changes from pink to colourless.
5. Calculation:

(drops of 1 N HCl x 0.19) – 0.23 = % by volume Green-Bond Fe

The data and statements contained in this bulletin are based on testing information and are believed to be accurate and reliable. This bulletin is not a Guarantee or Warranty, express or implied regarding the products use. The product is sold on the condition that the purchaser will do their own tests to determine the suitability of the product in a particular application.

READ THE SDS BEFORE USING THIS PRODUCT