

HYDRAZINE

TEST FOR HYDRAZINE IN INDUSTRIAL WATER

Photometer Method

AUTOMATIC WAVELENGTH SELECTION

0 – 0.5 mg/l N_2H_4

Hydrazine is used as an oxygen scavenger in high pressure boilers and steam raising plant. Hydrazine is particularly advantageous in that it does not contribute solids to the boiler water.

The Palintest Hydrazine test provides a simple means of measuring hydrazine levels in boiler feed water and boiler water over the range 0 - 0.5 mg/l.

Method

The Palintest hydrazine test uses a special reagent powder containing p-dimethylaminobenzaldehyde in an acidic formulation. Hydrazine reacts with this reagent to produce a yellow coloration. The intensity of the colour produced is proportional to the hydrazine concentration and is measured using the Palintest Photometer.

Reagents and Equipment

Palintest Hydrazine Test Powder

Palintest Automatic Wavelength Selection Photometer

Round Test Tubes, 10 ml glass (PT 595)

Scoop, 1g approx (PT 697)

Test Instructions

- 1 Filter sample if necessary to obtain clear solution.
- 2 Take two test tubes A and B.
- 3 Fill test tube A with sample to the 10 ml mark.
- 4 Fill test tube B with deionised water to the 10 ml mark.
- 5 To each tube add one level scoop (1g) of Hydrazine Test Powder. Mix to dissolve and cap tubes.
- 6 Stand for two minutes to allow full colour development.
- 7 Select Phot 41 on photometer.
- 8 Take photometer reading of Tube A in usual manner (see photometer instructions).
- 9 Use Tube B as the Blank to set the instrument.
- 10 The result is displayed as mg/l N_2H_4 .