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### **Product Technical Fact Sheet**

Product Code: PGA05V50

Product Description: 4 Pad Cobalt Chloride Humidity Test Strip 20% – 80% Humidity

Storage Recommendations: Store in original packaging in a cool (20-30C), dry, place out of direct sunlight.

Shelf-Life: Two years from date of manufacture when stored properly in original packaging.

Manufacturing:

- Sheets of untreated cellulose paper (500 mm x 660 mm) are chemically treated with an aqueous solution containing 5% Cobalt Chloride Hexahydrate (Reagent Grade) and 2.5% Potassium Thiocyanate (Reagent Grade) and allowed to air dry (turn from pink to blue).
- Sheets are trimmed using an industrial guillotine cutting machine to the dimensions required +/- 0.1 mm.

Application:

- Test sheets are used to detect presence of water
  - Humid conditions above 50-60% RH will cause the paper to turn pink
  - Water (spray) will turn the paper pink
  - Water (drops) will turn the paper pink and may leave a white spot upon drying
  - The reaction from blue to pink due to humidity or a fine spray is reversible
  - The reaction with larger volumes of water is not reversible

Principle of Operation:

- The Cobalt Chloride undergoes a transition from blue (anhydrous form) to pink (hydrated form) under certain conditions
- The Potassium Thiocyanate is used to moderate the sensitivity of the test sheets to %RH levels