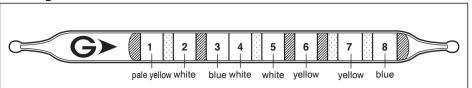
Polytec V

No.28



Performance

| Number of pump strokes | n=1 | | | | | |
|------------------------|-------------------------------------|--|--|--|--|--|
| Sampling time | 30 seconds per 1pump stroke (100mL) | | | | | |
| Shelf life | 1.5 years | | | | | |

Reaction principle

See the table below

| Detecting layer No. (Original colour) | | 1 (Pale yellow) | 2 (White) | 3 (Blue) | 4 (White) | 5 (White) | 6 (Yellow) | 7 (Yellow) | 8 (Blue) | |
|--|--------------------|---|---|---|--|--|---|---|--|--------------------------------------|
| Reaction principle | | Reaction with indicator | Reaction with p- Dimethylaminoben zaldehyde | Reaction with Barium Chloride and indicator | Reaction with o- Tolidine | Reaction with Lead Acetate | Reaction with Silver (I) Nitrate and indicator | Reaction with Sodium Hydrogen Sulphite | Neutralising reaction | |
| Substances & expected concentration | Hydrogen chloride | (≥ 5 ppm) (≥150 ppm) | Red (Inlet) Red (Whole layer) | | | | | | | |
| | Phosgene | (≥0.5 ppm) (≥ 20 ppm) | | Yellow (Inlet) Yellow (Whole layer) | | | | | | |
| | Chlorine | (≥ 7 ppm) (≥50 ppm) | | Yellow (Inlet) Yellow (Whole layer) | | | | | | |
| | Sulphur dioxide | (≥10 ppm) (≥50 ppm) | | | Yellow (Inlet) Yellow (Whole layer) | | | | | |
| | Nitrogen dioxide | (≥ 5 ppm) (≥30 ppm) | | Yellow (Inlet) | | Yellow (Inlet) Yellow (Whole layer) | | | | |
| | Hydrogen sulphide | (≥ 10 ppm) (≥200 ppm) (≥800 ppm) | | | | | Brown (Inlet) Brown (Whole layer) Brown (Whole layer) | Pink (Inlet) Pink (Whole layer) | | |
| | Hydrogen cyanide | (≥ 5 ppm) (≥30 ppm) | | | | | | Pink(Inlet) Pink(Whole layer) | | |
| | Carbon monoxide | (≥ 25 ppm) (≥100 ppm) | | | | | | | Blackish brown (Inlet) Blackish brown (Whole layer) | |
| | Hydrogen | (≥ 50000 ppm) (≥100000 ppm) | | | | | | | Gray (Whole layer) Blackish brown (Whole layer) | |
| | Hydrogen phosphide | (≥ 0.5 ppm) (≥ 5 ppm) (≥ 50 ppm) (≥ 700 ppm) | | | | | | Pink (Inlet) Pink (Whole layer) Pink (Whole layer) Pink (Whole layer) | Blackish brown (Inlet) Blackish brown (Whole layer) | |
| | Acetylene | (≥ 200 ppm) (≥2000 ppm) | | | | | | | Blackish brown (Inlet) Blackish brown (Whole layer) | |
| | Ethylene | (≥10000 ppm) | | | | | | | Blackish brown (Inlet) | - |
| | Propylene | (≥10000 ppm) (≥50000 ppm) | | | | | | | Gray (Inlet) Gray (Whole layer) | |
| | Methyl mercaptan | (≥ 200 ppm) (≥1000 ppm) | | | | | | | Yellowish orange (Inlet) Yellowish orange (Whole layer) | |
| | Carbon dioxide | (≥ 5000 ppm) (≥20000 ppm) | | | | | | | | Brown (Inlet) Brown (Whole layer) |

Parenthesized values after substances show their concentrations.

⁽¹⁾ Layer 1 may indicate shorter colour stain due to interference by Ammonia coexisting at similar concentration level.

⁽²⁾ Olefins stain layer 7 similarly to Carbon monoxide.

^{(3) (}Inlet) means the approximate gas concentration discolour the inlet of the layer.

^{(4) (}Whole layer) means the approximate gas concentration discolour the reagent of the layer.