

Qualitative analysis system for inorganic/organic gas qualitative detector tubes

Gas or Vapour to be Measured	Tube No. & Name		Measuring Range (ppm)	No. of Pump Strokes	Colour Change		Shelf Life (year)
					Original	Stain	
NH ₃ , SO ₂ , H ₂ S, CO, NO ₂ , R.SH	25	Polytec tube-II	Qualitative analysis	1	Qualitative analysis		2
NH ₃ , H ₂ S, CnHm	26	Polytec tube-III	Qualitative analysis	1	Qualitative analysis		2
NH ₃ , HCl, H ₂ S, SO ₂ , NO ₂ , CO, CO ₂	27	Polytec tube-IV	Qualitative analysis	1	Qualitative analysis		1.5
HCl, COCl ₂ , SO ₂ , NO ₂ , H ₂ S, HCN, CO, CO ₂	28	Polytec tube-V	Qualitative analysis	1	Qualitative analysis		1.5
Unknown Gases	107	Polytec tube-I	Qualitative analysis	3	Qualitative analysis		3
Kerosene, Gasoline	108	Qualitative analysis tube for fire investigation	Qualitative analysis	1	Qualitative analysis		3

The Gastec polytec system consists of the Model GV-100S Gas sampling pump and the Polytec tubes. The Polytec tubes are unique detector tubes, each having 1 to 8 reaction layers to determine multiple unknown substances in the sample simultaneously. When you pull the handle of the Pump and wait for a predetermined sampling time, the colour (s) of the Polytec tube's layer (s) change uniquely according to the contents of the sample. Six types of Polytec tubes are available: Polytec I (No.107), Polytec II (No.25), Polytec III (No.26), Polytec IV (No.27), Polytec V (No.28), and Qualitative analysis tube for fire investigation (No.108). Detailed descriptions are given in the instruction sheets included with individual Polytec tubes. If you already have the Model GV-100S gas sampling pump, you need only to obtain the desired Polytec tubes.

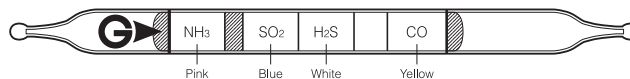
Polytec I (No. 107)



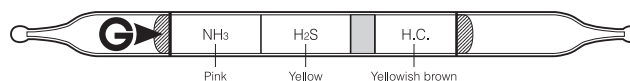
Qualitative analysis tube for fire investigation (No. 108)



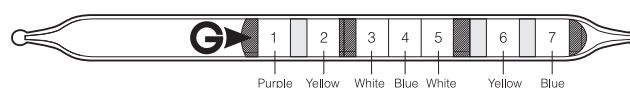
Polytec II (No. 25)



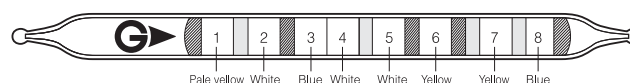
Polytec III (No. 26)



Polytec IV (No. 27)



Polytec V (No. 28)



Example :

Polytec V (No. 28)

Detecting layer	1	2	3	4	5	6	7	8
Original colour	Pale yellow	White	Blue	White	White	Yellow	Yellow	Blue
Colour change	Red	Yellow	Yellow	Yellow	Brown	Pink	Blackish brown, Gray, Yellowish orange	Brown
Substance	Hydrogen chloride	Phosgene, Chlorine, Nitrogen dioxide	Sulphur dioxide	Nitrogen dioxide	Hydrogen sulphide	Hydrogen sulphide, Hydrogen cyanide, Hydrogen phosphide	Carbon monoxide, Hydrogen, Hydrogen phosphide, Acetylene, Ethylene, Propylene, Methyl mercaptan	Carbon dioxide

Polytec IV (No. 27)

Detecting layer	1	2	3	4	5	6	7
Original colour	Purple	Yellow	White	Blue	White	Yellow	Blue
Colour change	Yellow	Red	Brown	Yellow, Purple	Yellow, Yellowish orange	Blackish brown, Gray, Yellowish orange	Brown
Substance	Ammonia, Diethylamine	Hydrogen chloride	Hydrogen sulphide	Chlorine, Sulphur dioxide, Nitrogen dioxide	Chlorine, Nitrogen dioxide	Hydrogen sulphide, Carbon monoxide, Hydrogen, Phosphine, Acetylene, Ethylene, Propylene, Methyl mercaptan	Carbon dioxide