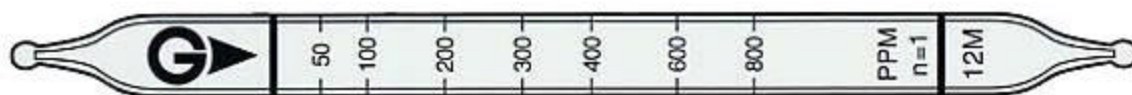


Hydrogen cyanide

HCN

NO.12M**Performance**

Measuring Range	17 to 50 ppm	50 to 800 ppm	800 to 2400 ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	1/3	1	3
Sampling Time	1 minute per pump stroke		
Detecting Limit	1 ppm (n=2)		
Color Change	Yellow → Red		
Reaction Principle	Hydrogen cyanide reacts with mercuric Chloride to form the hydrogen chloride then discolors the indicator to red. $2\text{HCN} + \text{HgCl}_2 \longrightarrow \text{Hg}(\text{CN})_2 + 2\text{HCl}$ HCl + Base → Chloride product		
Coefficient of Variation	10% (for 50 to 200 ppm), 5% (for 200 to 800 ppm)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Unnecessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Hydrogen sulfide	500 ppm	Plus error	Red discoloration
Sulfur dioxide	500 ppm	Plus error	Red discoloration

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
-	C 4.7 ppm	5.6 to 40%

Policy Statement and Legal Notices

Nextteq is Gastec's Exclusive U.S. Master Wholesale Distributor. Gastec tubes and pumps are manufactured by the Gastec Corporation.