

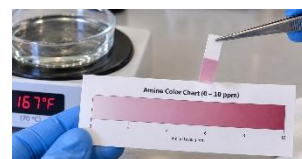
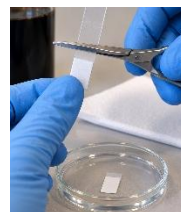
IMPORTANT, READ PRIOR TO USAGE

Chemi-Sense Range Amine Sensor

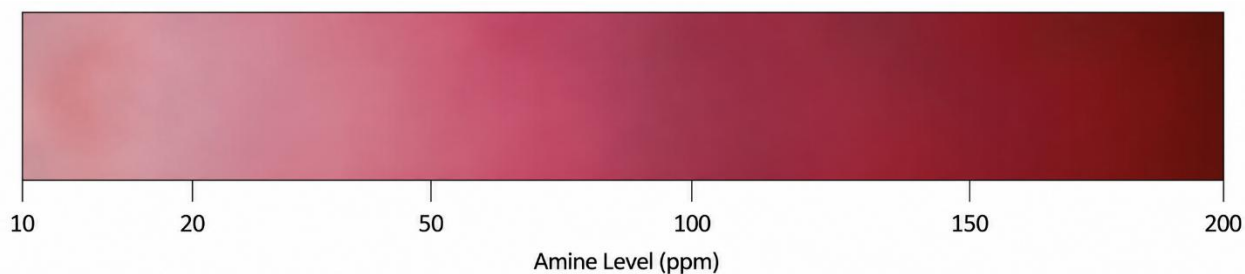
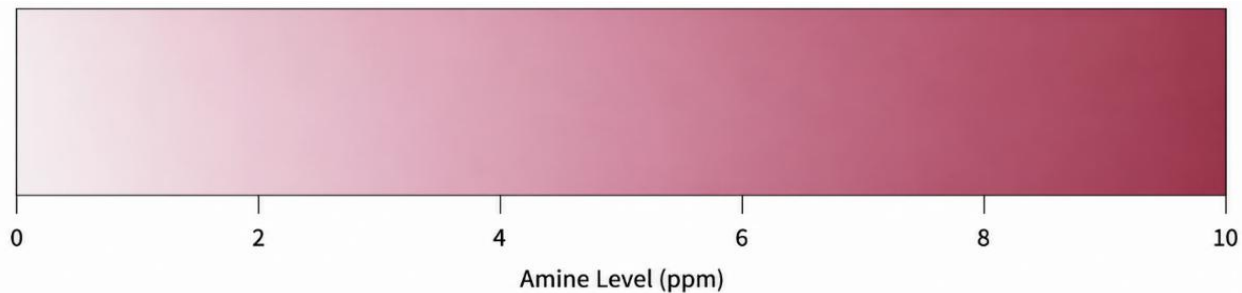
Chemi-Sense Systems Amine Sensor provides repeatable and reliable estimation of amine residuals (primary and secondary amines) in samples (crude, natural gas, and produced water, etc.) directly at the source. Engineered for field testing, the sensor accurately detects **1–10 ppm** amine levels with results available **in 15 min for higher concentrations (20-200ppm) and 35 min for low range concentrations (1-20ppm)**, providing **fast, accurate amine residual detection in the field.**

How to Use

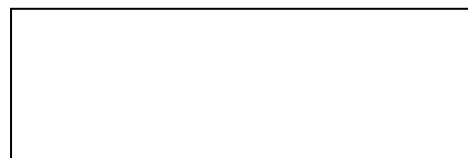
1. Collect a sample (crude, natural gas, or produced water, etc.).
2. Insert the test strip into the sample (ensure the sensor tip with white color is fully covered in the sample) and keep the test strip in the sample for 5 minutes.
3. Turn on the provided warmer and set it to 167°F (75 °C).
4. Remove the sensor film from the solution, if there are any excess liquid or debris on the film, very gently removing it with a clean, soft laboratory tissue (provided) to remove excess liquid.
5. Cut the sensor film from the strip using a scissor (the sensor film only not the holder) and place the test strip in the lid of the provided glass petri dish (removing the holder can reduce amine contamination to the sensor from the holder during heating).
6. Put the glass petri dish with sensor film on top of the provided warmer at 167°F (75 °C). Wait for 10 to 30 minutes (If the color is shown in 10 minutes, the concentration is higher than 20ppm and can take out for color reading; If the color is not shown within 10 minutes, wait for additional 20 minutes to see if the amine concentration is lower than 20 ppm).
7. Take the sensor film out using a tweezer and place the final sensor film in the empty box on the second page, match the final sensor film color to the provided calibration color chart below (or on the last page) to determine the amine concentration of your sample in parts per million (ppm), and take a photo using your photo for record/documentation (app is available to take the photo and documentation at <https://test-strip-reader.vercel.app/>, future app improvement for reading test strip is in progress).



Storage Instruction: Storage the unused Chemi-Sense Amine sensor film in the unused glass petri dish in room temperature, if possible, in a fridge of 4 °C for best results, without direct sun/heat contact.



(Reference Grey Color for Lighting Correction)



Place final sensor film in the box above for a photo as a record

Amine Color Chart (0 – 10 ppm)
(Color comparison with original samples)

Amine Level (ppm)	Original Sample Image	Color Standard (Comparison)
0 ppm		
2 ppm		
4 ppm		
6 ppm		
8 ppm		
10 ppm		

20 ppm		
50 ppm		
100 ppm		
150 ppm		
200 ppm		