

# Avoiding Major Risks in the Petrochemical Industry with Spectrex's Safety Equipment

## Keeping an eye on your safety

The petrochemical industry poses many risks and dangers to people, equipment, and the surrounding environment. Natural gas and petroleum, which are used in the production of plastics, paints, solvents, adhesives, agricultural products, or specialty gases, are highly combustible. Moreover, many petrochemical processes have dangerous byproducts like toxic H<sub>2</sub>S. One such process is the production of aromatic hydrocarbons benzene, toluene, and xylene.

The chemicals and substances involved in each process have their own individual hazards that must be closely monitored to optimize protection and security, especially when loss of human life is a possibility.



## Challenges

- Monitoring and ensuring the safety of ovens, boilers, reactors, catalyzers, hydrocrackers, separators, heaters, coolers, and pipelines with intermediate and final products
- Controlling and detecting leakages in storage containers, waste collectors, cooling water and spill pits
- Detecting escapes in control rooms, laboratories, and quality-control areas
- Detecting high density of toxic gases in pipelines with intermediate and final products

## Solutions

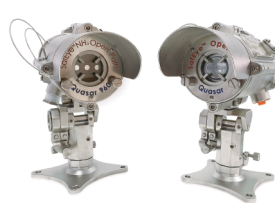
Spectrex's detection systems are ideal for detecting a wide range of gases and flames in petrochemical plants.



**The Next Generation of SharpEye™ Quad-Sense™ 40/40 Flame Detectors** - field-proven, reliable detectors that provide the fastest, longest detection of hydrocarbon-based fuel and gas fires.



**Quasar 900** - open-path detection system that provides innovative continuous IR technology monitoring for combustible hydrocarbon gases at very low concentrations, ensuring reliable and accurate protection.



**Quasar 950 open-path H<sub>2</sub>S gas detector** - open-path toxic gas detectors for hydrogen sulfide, which is pervasive in petrochemical plants. The detectors provide extremely reliable detection in all weather conditions.



**Quasar 960** - open-path toxic gas detector for ammonia (NH<sub>3</sub>).

Developed and equipped with the best technology has to offer, Spectrex's detections systems are the optimum solution for the petrochemical industry.