

Zefon® EoS™ Silica Cassette

The Zefon® EoS™ (End of Shift) silica cassette was designed to work with the new NIOSH silica monitoring approach. This cassette is designed to work with a portable FTIR (Fourier Transform Infrared) for field-based monitoring of respirable crystalline silica. Air samples are taken using a traditional cyclone and the EoS cassette. After sampling, the inlet and outlet of the cassette are removed. The middle section is then placed into a portable FTIR for a direct-on-filter analysis. The results are interpreted through a software program developed by NIOSH called FAST (Field Analysis of Silica Tool). A pre-weighed version of the cassette can be reassembled and sent to a laboratory for respirable dust analysis.



Features:

- Carbon filled, conductive cassette to reduce wall deposits.
- Can be used for silica and respirable dust analysis.
- Sample stays intact allowing it to be sent to a laboratory if desired.
- Helps provide on-site analysis so immediate controls can be implemented, if needed.



A dust sample is first collected using traditional samplers. The sampling cassette is removed and placed in a portable Fourier-transform infrared (FTIR) instrument in the field. The FTIR instrument examines the dust sample and offers a complete analysis in one to two minutes. Source: Emanuele Cauda, PhD; Lauren Chubb, DrPH; and Valerie Coughanour, MA, MFA. <https://blogs.cdc.gov/niosh-science-blog/2018/02/21/engineers-week-mining>.

PRODUCT	DESCRIPTION
745PVC-CF-FTIR	Zefon® 37mm FTIR Silica Cassette, 5.0µm PVC Filter. 10/bx
7P54P-CF-FTIR	Zefon® 37mm FTIR Silica Cassette, 5.0µm PVC Filter, Pre-weighed. 10/bx

Patent Pending

