

Silica

SILICA DUST HAZARD
EXPOSURE TO CRYSTALLINE SILICA
DUST CAN CAUSE CANCER
OR SILOSIS



CRYSTALLINE SILICA IS A MINERAL COMMONLY FOUND IN SAND, STONE, ROCK, CONCRETE, BLOCK OR MORTAR. WORKERS ARE EXPOSED TO CRYSTALLINE SILICA DUST IN MANY OPERATIONS, INCLUDING: CUTTING, SAWING, DRILLING AND CRUSHING.

KEY PROVISIONS

REDUCES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR RESPIRABLE CRYSTALLINE SILICA TO 50 MICROGRAMS PER CUBIC METER OF AIR ($50 \mu\text{g}/\text{m}^3$), AVERAGED OVER AN 8-HOUR SHIFT.

IMPLEMENTS AN ACTION LEVEL OF AIRBORNE RESPIRABLE CRYSTALLINE SILICA OF 25 MICROGRAMS PER CUBIC METER OF AIR ($25 \mu\text{g}/\text{m}^3$), AVERAGED OVER AN 8-HOUR SHIFT.

REQUIRES EMPLOYERS TO CONTROL SILICA DUST THROUGH ENGINEERING CONTROLS (WATER TO KEEP THE DUST FROM GETTING IN THE AIR AND USING VENTILATION TO REMOVE WHAT LITTLE DUST REMAIN).

REQUIRES EMPLOYERS TO PROVIDE RESPIRATORY PROTECTION WHEN THE PEL IS GOING TO BE OVER 50 MICROGRAMS AND TO KEEP EMPLOYEES FROM AREAS WHERE THE EXPOSURE MIGHT BE HIGHER THAN THE PEL.

REQUIRES EMPLOYERS TO PROVIDE MEDICAL EXAMS TO MONITOR HIGHLY EXPOSED WORKERS AND GIVES THEM INFORMATION ABOUT THEIR LUNG HEALTH.

EMSL ANALYTICAL IS YOUR SILICA SAMPLING PROJECT PARTNER



SAMPLING VIDEOS AVAILABLE @ EMSL.TV

SAMPLING EQUIPMENT FOR PURCHASE OR
FREE PUMP RENTAL WITH ANALYSIS



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UPDATED OSHA[®] CRYSTALLINE SILICA RULE

EMSL ANALYTICAL, INC. IS ACCREDITED TO ANS/ISO/IEC
STANDARD 17025:2005 FOR CRYSTALLINE SILICA THROUGH
THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA)

INDUSTRIES AFFECTED BY NEW RULE

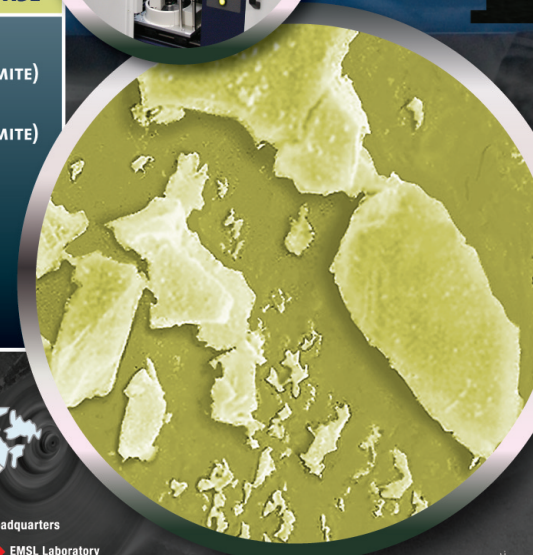
- CONSTRUCTION
- GENERAL INDUSTRY
- MARITIME WORK
- HYDRAULIC FRACTURING
- CONCRETE PRODUCTS
- REFRACTORY PRODUCTS
- READY-MIX CONCRETE

SILICA SERVICES PROVIDED BY EMSL

- CRYSTALLINE SILICA IN AIR (ALPHA QUARTZ, CRISTOBALITE, TRIDYMITE)
- CRYSTALLINE SILICA IN BULK (ALPHA QUARTZ, CRISTOBALITE, TRIDYMITE)
- CRYSTALLINE SILICA IN BULK (PHOSPHORIC ACID DIGESTION)
- AMORPHOUS SILICA IN AIR
- AMORPHOUS SILICA IN BULK
- AIRBOURNE CEMENT DUST IN AIR
- NIOSH & OSHA METHODOLOGIES



Cinnaminson, NJ - ID #100194
Huntington Beach, CA - ID #101650
Indianapolis, IN - ID #157245



United States and Canada Locations



Headquarters

- ♦ EMSL Laboratory
- ♦ EMSL Service Center
- ♦ LA Testing Laboratory

Some information used in this educational poster was obtained from www.osha.gov