




MILWAUKEE TOOL

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29 CFR 1926.1153 Milwaukee® OSHA® Compliance Solutions

To Whom It May Concern,

Milwaukee®, in partnership with Industrial Hygiene Sciences, LLC, has conducted testing on the Milwaukee 49-40-6105 7” Universal Surface Grinding Dust Shroud paired with the Milwaukee 8960-20 8 Gallon Dust Extractor. Results show that the user will be below the Permissible Exposure Limit (PEL) as described by OSHA 29 CFR 1926.1153 when using the 49-40-6105 7” Universal Surface Grinding Dust Shroud in conjunction with the 8960-20 8 Gallon Dust Extractor assuming it is used in accordance with manufacturer’s instructions. Testing results and procedures are outlined below:

Unit Tested	Average Sample Duration	% Silica (Quartz) in Sample	Average Respirable Crystalline Silica Concentration (µg/m3)	On-Tool Time per Day according to OSHA PEL (mins)	OSHA PEL in 1926.1153
49-40-6105 	61	13.0	81 µg/m³ TWA	35 mins	50 µg/m3 over an 8 hour period

- All grinding was performed using a 7” Milwaukee 6088-30 Large Angle Grinder equipped with the 49-93-7720 7” Diamond Cup Wheel. The 7” Universal Surface Grinding Dust Shroud was connected to the Milwaukee 8960-20 8 Gallon Dust Extractor equipped with HEPA filtration. The automatic filter was turned to “ON” mode.
- Concrete blocks were poured from a 5000 PSI concrete mix.
- The room size was 12’9” x 26’5” x 8’
- The room surfaces were wiped down between trials to ensure accurate measurements
- Samples were analyzed using OSHA ID-142 by the Wisconsin Occupational Health Laboratory, an AIHA Accredited laboratory. The sampling method used meets the definition of respirable crystalline silica in 1926.1153 (a) and Appendix A of the OSHA Respirable Crystalline Silica Standard (1926.1153).
- The Time Weighted Average (TWA) was calculated assuming zero exposure to respirable crystalline silica for the non-sampled portion of a 480 minutes (8 hour) shift. Longer exposure times, assuming that the dust exposures would be similar to those collected in these trials, would likely result in higher TWAs. Factors that would affect actual user exposures include, but are not limited to, the ventilation and air flow patterns in the work space, the presence of other respirable silica dust generating activities in the area, and the method used to empty the extractor.

It is the responsibility of the user to operate the tool in accordance with manufacturer’s instructions. For the latest listings of approvals, visit milwaukeetool.com. For technical or service assistance, contact Milwaukee Customer Service at 1-800-729-3878.