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STONWORKING HEALTH RISKS: SILICA AND TOTAL DUST

Abstract:

The popularity of colored gemstone is skyrocketing. The grinding process produces dust and silica that will expose the workers. Thus, will impair the workers' health particularly in their respiratory system. NIOSH Manual of Analytical Methods 0500 and NIOSH Manual of Analytical Methods 7602 are used for total dust and silica. There were two workers that were being sampled with personal sampling method - one for total dust and one for silica. The results of this sampling are 2.22 mg/m³ and 0.4981 mg/m³ for total dust and silica. Both of the results are below OSHA PEL, but exceeding ACGIH TLV for silica.

Keywords:

total dust, silica, gemstone workers

JEL Classification: I19