

John Smith
TLVs®

**THRESHOLD
LIMIT VALUES
and
BIOLOGICAL
EXPOSURE INDICES
for
1987-1988**



American
Conference
of Governmental
Industrial Hygienists

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DUSTS

In this edition of the TLV list, dusts are also listed in the main alphabetical listing. Starting with the 1988-1989 edition, dusts will be listed in the main alphabetical listing only.

Substance	TLV-TWA
SILICA, SiO_2	
<i>Crystalline</i>	
Quartz ^(a) [14808-60-7]	0.1 mg/m ³ , Respirable dust
Cristobalite ^(a) [14464-46-1]	0.05 mg/m ³ , Respirable dust
Silica, fused ^(a) [60676-86-0]	0.1 mg/m ³ , Respirable dust
Tridymite ^(a) [15468-32-3]	0.05 mg/m ³ , Respirable dust
Tripoli ^(a) [1317-95-9]	0.1 mg/m ³ of contained respirable quartz dust.
<i>Amorphous</i>	
Diatomaceous earth (uncalcined) ^(a) [68855-54-9]	10 mg/m ³ , Total dust
* Precipitated silica ^(a)	10 mg/m ³ , Total dust
* Silica gel ^(a)	10 mg/m ³ , Total dust
SILCATES	
<i>Asbestos^(a)</i>	
Amosite [12172-73-5]	0.5 fiber/cc, A1
Chrysotile [12001-29-5]	2 fibers/cc, A1
Crocidolite [12001-28-4]	0.2 fiber/cc, A1
Other forms	2 fibers/cc, A1
Mica ^(a) [12001-25-2]	3 mg/m ³ , Respirable dust
Mineral wool fiber	10 mg/m ³
Perlite ^(a)	10 mg/m ³ , Total dust
Portland cement ^(a)	10 mg/m ³ , Total dust
Soapstone	3 mg/m ³ , Respirable dust ^(a) 6 mg/m ³ , Total dust ^(a)
Talc (containing no asbestos fibers) ^(a) [14807-96-6]	2 mg/m ³ , Respirable dust
Talc (containing asbestos fibers)	Use asbestos TLV-TWA. However, should not exceed 2 mg/m ³ respirable dust.

OTHER DUSTS

Barium sulfate ^(a) [7727-43-7]	10 mg/m ³ , Total dust
* Coal dust ^(a)	2 mg/m ³ , Respirable fraction
Grain dust (oats, wheat, barley)	4 mg/m ³ , Total particulate
† Graphite ^(a) (natural) [7782-42-5]	(2.5 mg/m ³ , Respirable dust)
† Graphite, synthetic ^(a)	(10 mg/m ³ , Total dust)
Nuisance particulates ^(a) (see Appendix D)	10 mg/m ³ , Total dust

† See Notice of Intended Changes.
* 1987-1988 Adoption.

- (d) Fibers longer than 5 μm and with an aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4 mm objective) phase contrast illumination.
- (e) The value is for total dust containing no asbestos and <1% free silica.
- (f) The value is for dust containing <5% free silica. For dust containing more than this percentage of free silica, the environment should be evaluated against the TLV-TWA of 0.1 mg/m³ for respirable quartz. The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in the "c" paragraphs of Appendix F.
- (i) The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in the "c" paragraphs in Appendix F.