

Threshold Limit Values  
of Airborne Contaminants  
AND INTENDED CHANGES  
Adopted By ACGIH  
For 1970



B003201

LAM021593

6113  
18450

## MINERAL DUSTS

| Substance                                                    | m.p.p.c.f. <sup>e)</sup>                                                                  |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>SILICA</b>                                                |                                                                                           |
| Crystalline                                                  |                                                                                           |
| ** Quartz, Threshold Limit calculated from the formula ..... | 250 f)<br>%SiO <sub>2</sub> +5                                                            |
| ** Cristobalite " " "                                        |                                                                                           |
| Amorphous, including natural diatomaceous earth .....        | 20                                                                                        |
| <b>SILICATES (less than 1% crystalline silica)</b>           |                                                                                           |
| ** Asbestos, all types .....                                 | 5                                                                                         |
| Mica .....                                                   | 20                                                                                        |
| Portland Cement .....                                        | 50                                                                                        |
| Soapstone .....                                              | 20                                                                                        |
| Talc (non-asbestiform) .....                                 | 20                                                                                        |
| Talc (fibrous), use asbestos limit .....                     | --                                                                                        |
| Tremolite, see asbestos .....                                | --                                                                                        |
| Graphite (natural) .....                                     | 15                                                                                        |
| ** "Inert" or Nuisance Particulates                          | 50 (or 15 mg/M <sup>3</sup> whichever is the smaller) of total dust < 1% SiO <sub>2</sub> |
| see Appendix D                                               |                                                                                           |
| <b>Conversion factors</b>                                    |                                                                                           |
| mppcf x 35.3 = million particles per cubic meter             |                                                                                           |
| = parucles per c.c.                                          |                                                                                           |

e) Millions of particles per cubic foot of air, based on impinger samples counted by light-field technics.

f) The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable.

\*\* See Notice of Intended Changes for Mineral Dusts.

## NOTICE OF INTENDED CHANGES (for 1970)

These substances, with their corresponding values, comprise those for which either a limit has been proposed for the first time, or for which a change in the "Adopted Limit" has been proposed. In both cases, the proposed limit will be considered trial limits that will remain in effect for a period of at least two years. During this time, the Adopted Limit will remain in effect. If, after to evidence comes to light that questions the appropriateness of the values herein, the values will be placed in the list. Documentation is available for each of these substances.

### MERCURY (all forms except alkyl) ..... 0.05

| Substance                                                    | ppm   | mg/M <sup>3</sup> |
|--------------------------------------------------------------|-------|-------------------|
| 2-Acetylaminofluorene-Skin .....                             | --    | A <sup>1</sup>    |
| + Allyl glycidyl ether .....                                 | 5     | 22                |
| 4-Aminodiphenyl-Skin .....                                   | --    | A <sup>1</sup>    |
| + Ammonia .....                                              | 25    | 18                |
| + Ammonium chloride fume .....                               | --    | 10                |
| Asphalt (petroleum) fumes .....                              | --    | 5                 |
| + Butyl lactate .....                                        | 1     | 5                 |
| + Camphor (synthetic) .....                                  | 2     | 12                |
| + Diazinon-Skin .....                                        | --    | 0                 |
| + 2-N Dibutylamino ethanol-Skin .....                        | 2     | 14                |
| Dichlorobenzidine-Skin .....                                 | --    | A <sup>1</sup>    |
| + Diethylene triamine-Skin .....                             | 1     | 4                 |
| 4-Dimethylaminobenzene .....                                 | --    | A <sup>1</sup>    |
| Fibrous glass .....                                          | g) -- | D                 |
| + C Formaldehyde .....                                       | 2     | 3                 |
| + Iron pentacarbonyl .....                                   | 0.01  | 0.0               |
| + Mercury (Alkyl compounds) - Skin .....                     | --    | 0.0               |
| + Methyl chloride .....                                      | 100   | 210               |
| + Methyl 2-cyanoacrylate .....                               | 2     | 8                 |
| + Methylcyclopentadienyl manganese tricarbonyl (as Mn) ..... | 0.1   | 0.2               |
| Methyl demeton-Skin .....                                    | --    | 0.5               |
| Methyl parathion-Skin .....                                  | --    | 0.2               |
| Phenothiazine-Skin .....                                     | --    | 5                 |
| + Rosin Core Solder, pyrolysis products .....                | --    | 0.1               |
| Styrene .....                                                | 100   | 420               |
| + C Subtilisins (Proteolytic enzymes) .....                  | --    | 0.0               |
| + Vanadium (V <sub>2</sub> O <sub>5</sub> Fume) as V .....   | --    | 0.0               |
| Vinyl acetate .....                                          | 10    | 30                |
| + Vinyl chloride .....                                       | 200   | 770               |
| + Wood dust (non allergenic) .....                           | --    | 5                 |

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+ 1970 Revision or Addition  
Capital letters refer to Appendices  
g) < 5-7 μ Diameter. No TLV for coarse fibrous glass has yet been set.

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