

## Occupational Exposure Limits in mg/m<sup>3</sup> 8 hours TWA – Respirable dust – in EU 27<sup>1</sup> + Norway, Switzerland, Turkey

| Country/Authority<br><i>(see caption p. 3)</i> | (inert) dust<br>INHALABLE | (inert) dust<br>RESPIRABLE | Quartz             | Cristobalite      | Tridymite         | Diatomaceous<br>earth | Amorphous<br>silica | Fused silica     | Kaolin | Mica | Talc |
|--|---------------------------|----------------------------|--------------------|-------------------|-------------------|-----------------------|---------------------|------------------|--------|------|------|
| <b>Austria/I</b>                               | 10                        | 5                          | 0,05               | 0,05              | 0,05              |                       |                     | 0,15             |        |      | 2    |
| <b>Belgium/II</b>                              | 10                        | 3                          | 0,1                | 0,05              | 0,05              | 3                     | 2                   | 0,1              | 2      | 3    | 2    |
| <b>Bulgaria/III</b>                            |                           | 4                          | 0,07               | 0,07              | 0,07              | 1 <sup>2</sup>        |                     |                  |        |      | 3    |
| <b>Cyprus/IV</b>                               |                           | /                          | 10k/Q <sup>3</sup> | /                 | /                 | /                     | 2                   | /                | /      | /    | /    |
| <b>Czech Republic/V</b>                        |                           |                            | 0,1                | 0,1               | 0,1               |                       |                     | 4                |        | 2    | 2    |
| <b>Denmark/VI</b>                              | 10                        | 5                          | 0,1                | 0,05              | 0,05              | 1,5                   |                     | 0,1              | 2      |      |      |
| <b>Estonia</b>                                 |                           |                            | 0,05               | 0,05              | 0,05              |                       | 2                   |                  |        |      |      |
| <b>Finland/VII</b>                             | 10                        | /                          | 0,05               | 0,05              | 0,05              | 5                     |                     |                  |        |      | 2    |
| <b>France/VIII</b>                             | 10                        | 5                          | 0,1                | 0,05              | 0,05              |                       |                     |                  | 10     |      |      |
| <b>Germany/IX</b>                              | 10                        | 0,5 <sup>4</sup>           | 0,05 <sup>5</sup>  | 0,05 <sup>5</sup> | 0,05 <sup>5</sup> | 0,3 <sup>6</sup>      | 4 <sup>7</sup>      | 0,3 <sup>8</sup> | /      | /    | /    |
| <b>Greece/X</b>                                | 10                        | 5                          | 0,1                | 0,05              | 0,05              |                       |                     |                  |        |      | 2    |
| <b>Hungary</b>                                 |                           |                            | 0,1                | 0,1               | 0,1               |                       |                     |                  |        |      | 2    |
| <b>Ireland/XI</b>                              | 10                        | 4                          | 0,1                | 0,1               | 0,1               |                       | 2,4                 | 0,08             | 2      | 0,8  | 0,8  |
| <b>Italy/XII</b>                               | 10                        | 3                          | 0,1                | 0,1               | 0,1               |                       |                     | 0,1              | 2      | 3    | 2    |

<sup>1</sup> Missing information for Croatia and Latvia. As of 16 January 2018, a European Binding Occupational Exposure Limit is set for respirable crystalline silica dust at 0.1 mg/m<sup>3</sup> in Directive 2017/2398.

<sup>2</sup> Inhalable fraction

<sup>3</sup> Q : quartz percentage – K=1

<sup>4</sup> Defined for a density of 1 g/cm<sup>3</sup>, i.e. for minerals with a common density of 2,5 g/cm<sup>3</sup>, a calculated OEL of 1,25 mg/m<sup>3</sup> applies.

<sup>5</sup> Assessment criterion (reference value).

<sup>6</sup> Respirable fraction for calcinated Kieselgur

<sup>7</sup> Inhalable fraction.

<sup>8</sup> Respirable fraction.

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|--|---------------------------|----------------------------|---|--------------|-----------|-----------------------|---------------------|--------------|--------|------|------|
| <b>Lithuania/XIII</b>                          |                           | 10                         | 0,1   | 0,05         | 0,05      |                       |                     |              |        |      | 1    |
| <b>Luxembourg/XIV</b>                          | 10                        | 6                          | 0,15  | 0,15         | 0,15      |                       |                     | 0,3          |        |      | 2    |
| <b>Malta<sup>9</sup>/ XV</b>                   |                           | /                          | /   | /            | /         |                       |                     |              |        |      |      |
| <b>Netherlands/ XVI</b>                        | 10                        | 5                          | 0,075   | 0,075        | 0,075     |                       |                     |              |        | 2,5  | 0,25 |
| <b>Norway/ XVII</b>                            | 10                        | 5                          | 0,1   | 0,05         | 0,05      | 1,5                   | 1,5                 |              |        | 3    | 2    |
| <b>Poland/XVIII</b>                            | 2                         | 0,3                        | 0,1   | 0,1          | 0,1       | 2                     | 2                   | 1            | 10     |      | 1    |
| <b>Portugal/ XIX</b>                           | 10                        | 5                          | 0,025   | 0,025        | 0,025     |                       |                     | 0,1          | 2      | 3    | 2    |
| <b>Romania/ XX</b>                             |                           | 10                         | 0,1   | 0,05         | 0,05      |                       |                     |              | 2      | 3    | 2    |
| <b>Slovakia</b>                                | 10                        |                            | 0,1   | 0,1          | 0,1       |                       | 2                   |              |        | 2    | 2    |
| <b>Slovenia</b>                                |                           |                            | 0,1   | 0,1          | 0,1       |                       |                     | 0,3          |        |      | 2    |
| <b>Spain/XXI</b>                               | 10                        | 3                          | 0,05  | 0,05         | 0,05      |                       |                     | 0,1          | 2      | 3    | 2    |
| <b>Sweden/XXII</b>                             |                           | 5                          | 0,1   | 0,05         | 0,05      |                       |                     |              |        |      | 1    |
| <b>Switzerland/XXIII</b>                       |                           | 6                          | 0,15  | 0,15         | 0,15      |                       | 0,3                 | 0,3          | 3      | 3    | 2    |
| <b>UK/XXIV</b>                                 | 10                        | 4                          | 0,1   | 0,1          | 0,1       | 1,2                   | 2,4                 | 0,08         | 2      | 0,8  | 1    |
| <b>Turkey</b>                                  |                           |                            | 10<br>mg/m <sup>3</sup> /<br>%SiO <sub>2</sub><br>+ 2 |              |           |                       |                     |              |        |      |      |

<sup>9</sup> When needed, Maltese authorities refer to values from the UK for OELVs which do not exist in the Maltese legislation.

## Caption

| Country               |              | Adopted by/Law denomination   | OEL Name (if specific)   |
|-----------------------|--------------|---|--|
| <b>Austria</b>        | <b>I</b>     | Verordnungen BGBl. II 382/2020  | Maximale ArbeitsplatzKonzentration (MAK)   |
| <b>Belgium</b>        | <b>II</b>    | Ministère de l'Emploi et du Travail   |  |
| <b>Bulgaria</b>       | <b>III</b>   | Ministry of Labour and Social Policy and Ministry of Health (2003)                                    | Limit Values   |
| <b>Cyprus</b>         | <b>IV</b>    | Department of Labour Inspection. Control of factory atmosphere and dangerous substances in factories. |  |
| <b>Czech Republic</b> | <b>V</b>     | Governmental Directive  | Přípustný expoziční limit (PEL) (=Permissible exposure limit)  |
| <b>Denmark</b>        | <b>VI</b>    | Direktoratet for Arbejdstilsynet  | Threshold Limit Value  |
| <b>Finland</b>        | <b>VII</b>   | National Board of Labour Protection   | Occupational Exposure Standard   |
| <b>France</b>         | <b>VIII</b>  | Ministère du Travail  | Valeur limite de Moyenne d'Exposition  |
| <b>Germany</b>        | <b>IX</b>    | Bundesministerium für Arbeit und Soziales (BMAS)  | Arbeitsplatzgrenzwert (AGW)  |
| <b>Greece</b>         | <b>X</b>     | Legislation for mining activities   |  |
| <b>Ireland</b>        | <b>XI</b>    | Code of Practice for the Safety, Health & Welfare at Work (CoP)                                       |  |
| <b>Italy</b>          | <b>XII</b>   | Decreto Legislativo 1 giugno 2020 n. 44   |  |
| <b>Lithuania</b>      | <b>XIII</b>  | Dėl Lietuvos higienos normos  | Ilgalaikio poveikio ribinė vertė (IPRV)  |
| <b>Luxembourg</b>     | <b>XIV</b>   | Bundesministerium für Arbeit  | Maximale ArbeitsplatzKonzentration (MAK)   |
| <b>Malta</b>          | <b>XV</b>    | OHSa – <a href="http://www.ohsa.org.mt">www.ohsa.org.mt</a>   | OELVs  |
| <b>Netherlands</b>    | <b>XVI</b>   | Ministerie van Sociale Zaken en Werkgelegenheid   | Publieke grenswaarden<br><a href="http://www.ser.nl/en/oel_database.aspx">http://www.ser.nl/en/oel_database.aspx</a> |
| <b>Norway</b>         | <b>XVII</b>  | Direktoratet for Arbejdstilsynet  | Administrative Normer (8hTWA) for Forurensing i Arbeidsmiljøet   |
| <b>Poland</b>         | <b>XVIII</b> | Regulation of the Minister of Labour and Social –   | Limit values   |
| <b>Portugal</b>       | <b>XIX</b>   | Instituto Portuges da Qualidade, Hygiene & Safety at Workplace  | Valores Limite de Exposição (VLE)  |

|                       |              |   |                                       |
|-----------------------|--------------|---|---------------------------------------|
| <b>Romania</b>        | <b>XX</b>    | Government Decision regarding workers' health surveillance.<br>Government Decision regarding carcinogenic agents (in Annex 3: Quartz, Cristobalite, Tridymite). | OEL                                   |
| <b>Spain</b>          | <b>XXI</b>   | Instrucciones de Técnicas Complementarias (ITC)   | Valores Limites                       |
| <b>Sweden</b>         | <b>XXII</b>  | National Board of Occupational Safety and Health  | Yrkeshygieniska Gränsvärden           |
| <b>Switzerland</b>    | <b>XXIII</b> |   | Valeur limite de Moyenne d'Exposition |
| <b>United Kingdom</b> | <b>XXIV</b>  | Health & Safety Executive   | Workplace Exposure Limits (WEL)       |

Source : IMA-Europe. Date : September 2020