

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

	Country/Authority <i>(see caption p. 3)</i>	(inert) dust INHALABLE	(inert) dust RESPIRABLE	Quartz	Cristobalite	Tridymite	Diatomaceous earth	Amorphous silica	Fused silica	Kaolin	Mica	Talc
	<b>Austria/I</b>	10	5	0,15	0,15	0,15			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>			0,1	0,05	0,05		2				
	<b>Finland/VII</b>	10	/	0,05	0,05	0,05	5					5
	<b>France/VIII</b>	10	5	0,1	0,05	0,05				10		
	<b>Germany/IX</b>	10	0,5 <sup>4</sup>	/ <sup>5</sup>	/	/			0,3			/
	<b>Greece/X</b>	10	5	0,1	0,05	0,05						2
	<b>Hungary</b>			0,15	0,1	0,15						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	0,05 <sup>6</sup>	0,05	0,05			0,1	2	3	2
	<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>7</sup>/ XV</b>		/	/	/	/						

<sup>1</sup> Missing information for Latvia – To be completed.

<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> Germany has no more OEL for quartz, cristobalite and tridymite. Employers are obliged to minimize exposure as much as possible, and to follow certain protective measures.

<sup>6</sup> Inspection authorities use the ACGIH recommended limit value of 0.025 mg/m<sup>3</sup>.

<sup>7</sup> When needed, Maltese authorities refer to values from the UK for OELVs which do not exist in the Maltese legislation.

	<b>Country/Authority</b> <i>(see caption p. 3)</i>	<b>(inert) dust INHALABLE</b>	<b>(inert) dust RESPIRABLE</b>	<b>Quartz</b>	<b>Cristobalite</b>	<b>Tridymite</b>	<b>Diatomaceous earth</b>	<b>Amorphous silica</b>	<b>Fused silica</b>	<b>Kaolin</b>	<b>Mica</b>	<b>Talc</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	0,3	0,3	0,3	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>			0,15	0,15	0,15			0,3			2
	<b>Spain/XXI</b>	10	3	0,1	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

## Caption

Country		Adopted by/Law denomination	OEL Name (if specific)
<b>Austria</b>	<b>I</b>	Bundesministerium für Arbeit und Soziales	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. Ordinance n°13 of 30/12/2003	Limit Values
<b>Cyprus</b>	<b>IV</b>	Department of Labour Inspection. Control of factory atmosphere and dangerous substances in factories, Regulations of 1981.	
<b>Czech Republic</b>	<b>V</b>	Governmental Directive n°361/2007	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	Maximale ArbeitsplatzKonzentration (MAK)
<b>Greece</b>	<b>X</b>	Legislation for mining activities	
<b>Ireland</b>	<b>XI</b>	2011 Code of Practice for the Safety, Health & Welfare at Work (CoP)	
<b>Italy</b>	<b>XII</b>	Associazione Italiana Degli Igienisti Industriali	Threshold Limit Values (based on ACGIH TLVs)
<b>Lithuania</b>	<b>XIII</b>	Dėl Lietuvos higienos normos HN 23:2001	Ilgalaikio poveikio ribinė vertė (IPRV)
<b>Luxembourg</b>	<b>XIV</b>	Bundesministerium für Arbeit	Maximale ArbeitsplatzKonzentration (MAK)
<b>Malta</b>	<b>XV</b>	OHSa – LN120 of 2003, <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 <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 – 29.11.2002	Limit values
<b>Portugal</b>	<b>XIX</b>	Instituto Portuges da Qualidade, Hygiene & Safety at Workplace NP1796:2007	Valores Limite de Exposição (VLE)

<b>Romania</b>	<b>XX</b>	Government Decision n° 355/2007 regarding workers' health surveillance. Government Decision n° 1093/2006 regarding carcinogenic agents (in Annex 3: Quartz, Cristobalite, Tridymite).	OEL
<b>Spain</b>	<b>XXI</b>	Instrucciones de Técnicas Complementarias (ITC) Orden ITC/2585/2007	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 : October 2014, updated version available at <http://www.crystallinesilica.eu/content/rcs-workplace-exposure-prevention>