

Occupational Exposure Limits in mg/m³ 8 hours TWA – Respirable dust – in EU 27¹ + Norway, Switzerland, Turkey

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
Austria/I	10	5	0,05	0,05	0,05			0,15			2
Belgium/II	10	3	0,1	0,05	0,05	3	2	0,1	2	3	2
Bulgaria/III		4	0,07	0,07	0,07	1 ²					3
Cyprus/IV		/	10k/Q ³	/	/	/	2	/	/	/	/
Czech Republic/V			0,1	0,1	0,1			4		2	2
Denmark/VI	10	5	0,1	0,05	0,05	1,5		0,1	2		
Estonia			0,05	0,05	0,05		2				
Finland/VII	10	/	0,05	0,05	0,05	5					2
France/VIII	10	5	0,1	0,05	0,05				10		
Germany/IX	10	0,5 ⁴	0,05 ⁵	0,05 ⁵	0,05 ⁵	0,3 ⁶	4 ⁷	0,3 ⁸	/	/	/
Greece/X	10	5	0,1	0,05	0,05						2
Hungary			0,1	0,1	0,1						2
Ireland/XI	10	4	0,1	0,1	0,1		2,4	0,08	2	0,8	0,8
Italy/XII	10	3	0,1	0,1	0,1			0,1	2	3	2

¹ 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/m³ in Directive 2017/2398.

² Inhalable fraction

³ Q : quartz percentage – K=1

⁴ Defined for a density of 1 g/cm³, i.e. for minerals with a common density of 2,5 g/cm³, a calculated OEL of 1,25 mg/m³ applies.

⁵ Assessment criterion (reference value).

⁶ Respirable fraction for calcinated Kieselgur

⁷ Inhalable fraction.

⁸ Respirable fraction.

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
Lithuania/XIII		10	0,1	0,05	0,05						1
Luxembourg/XIV	10	6	0,1	0,1	0,1			0,3			2
Malta⁹/ XV		/	/	/	/						
Netherlands/ XVI	10	5	0,075	0,075	0,075					2,5	0,25
Norway/ XVII	10	5	0,05	0,05	0,05	1,5	1,5			3	2
Poland/XVIII	10	/	0,1	0,1	0,1	2	2	1	10		1
Portugal/ XIX	10	5	0,025	0,025	0,025			0,1	2	3	2
Romania/ XX		10	0,1	0,05	0,05				2	3	2
Slovakia	10		0,1	0,1	0,1		2			2	2
Slovenia			0,05	0,05	0,05			0,3			2
Spain/XXI	10	3	0,05	0,05	0,05			0,1	2	3	2
Sweden/XXII	5	2,5	0,1	0,05	0,05						1
Switzerland/XXIII		6	0,15	0,15	0,15		0,3	0,3	3	3	2
UK/XXIV	10	4	0,1	0,1	0,1	1,2	2,4	0,08	2	0,8	1
Turkey			10 mg/m ³ / %SiO ₂ + 2								

⁹ 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)
Austria	I	Verordnungen BGBl. II 382/2020	Maximale ArbeitsplatzKonzentration (MAK)
Belgium	II	Ministère de l'Emploi et du Travail	
Bulgaria	III	Ministry of Labour and Social Policy and Ministry of Health (2003)	Limit Values
Cyprus	IV	Department of Labour Inspection. Control of factory atmosphere and dangerous substances in factories.	
Czech Republic	V	Governmental Directive	Přípustný expoziční limit (PEL) (=Permissible exposure limit)
Denmark	VI	Direktoratet for Arbejdstilsynet	Threshold Limit Value
Finland	VII	National Board of Labour Protection	Occupational Exposure Standard
France	VIII	Ministère du Travail	Valeur limite de Moyenne d'Exposition
Germany	IX	Bundesministerium für Arbeit und Soziales (BMAS)	Arbeitsplatzgrenzwert (AGW)
Greece	X	Legislation for mining activities	
Ireland	XI	Code of Practice for the Safety, Health & Welfare at Work (CoP)	
Italy	XII	Decreto Legislativo 1 giugno 2020 n. 44	
Lithuania	XIII	Dėl Lietuvos higienos normos	Ilgalaikio poveikio ribinė vertė (IPRV)
Luxembourg	XIV	Bundesministerium für Arbeit	Maximale ArbeitsplatzKonzentration (MAK)
Malta	XV	OHSa – www.ohsa.org.mt	OELVs
Netherlands	XVI	Ministerie van Sociale Zaken en Werkgelegenheid	https://www.ser.nl/en/themes/OEL-Database/About-OEL
Norway	XVII	Direktoratet for Arbejdstilsynet	Administrative Normer (8hTWA) for Forurensing i Arbeidsmiljøet
Poland	XVIII	Regulation of the Minister of Labour and Social –	Limit values
Portugal	XIX	Instituto Portuges da Qualidade, Hygiene & Safety at Workplace	Valores Limite de Exposição (VLE)

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

Source : IMA-Europe. Date : February 2022