

## Table of Occupational Exposure Limits for asbestos in Europe and internationally

<b>Substance</b>	Asbestos, actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite
<b>CAS No.</b>	1332-21-4 77536-66-4 12172-73-5 12001-29-5 132207-32-0 12001-28-4 132207-33-1 77536-68-6 77536-67-5 14567-73-8

	Limit value - Eight hours	Limit value - Short term
<a href="#">Australia</a>	0,1 fibres per cm <sup>3</sup> (1)	
<a href="#">Austria</a>	0,25 fibres per cm <sup>3</sup>	1 fibre per cm <sup>3</sup>
<a href="#">Belgium</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">Canada - Ontario</a>	0,1 fibres/cm <sup>3</sup> (1)	
<a href="#">Canada - Québec</a>	1 fibres per cm <sup>3</sup> (actinolite, anthophyllite, chrysotile, tremolite)	5 fibres per cm <sup>3</sup> (actinolite, anthophyllite, chrysotile, tremolite)
	0,2 fibres per cm <sup>3</sup> (amosite, crocidolite)	1 fibres per cm <sup>3</sup> (amosite, crocidolite)
<a href="#">Denmark</a>	0,1 fibres per cm <sup>3</sup>	0,2 fibres per cm <sup>3</sup>
<a href="#">European Union</a>	<b>0,1 fibres per cm<sup>3</sup></b>	
<a href="#">Finland</a>	0,1 fibres/cm <sup>3</sup> (1)	
<a href="#">France</a>	<b>0,1 fibres per cm<sup>3</sup></b>	
	<b>0,01 fibres per cm<sup>3</sup> (1)</b>	
<a href="#">Germany (AGS)</a>	0,1 fibres per cm <sup>3</sup> (1)( 2)	0,8 fibres per cm <sup>3</sup> (2)(4)
	0,01 fibres per cm <sup>3</sup> (3)	
<a href="#">Hungary</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">Ireland</a>	0,1 fibres per cm <sup>3</sup>	

<a href="#">Israel</a>	0,2 fibres/cm <sup>3</sup>	
<a href="#">Italy</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">Japan (MHLW)</a>	0,15 fibres per cm <sup>3</sup>	
<a href="#">Japan (JSOH)</a>	0,03 fibres/cm <sup>3</sup> (1)(2)(3)(5)	
	0,003 fibres/cm <sup>3</sup> (1)(2)(4)(5)	
<a href="#">Latvia</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">New Zealand</a>	0,1 fibres per cm <sup>3</sup>	0,6 fibres per cm <sup>3</sup> (4)
<a href="#">People's Republic of China</a>	0,8 (1)	
<a href="#">Singapore</a>	0,1 fibres/cm <sup>3</sup>	
<a href="#">South Korea</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">Spain</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">Sweden</a>	0,1 fibres per cm <sup>3</sup>	
<a href="#">Switzerland</a>	0,01 fibres per cm <sup>3</sup>	
<a href="#">The Netherlands</a>	0,01 fibres per cm <sup>3</sup>	
<a href="#">USA - NIOSH</a>	0,1 fibres/cm <sup>3</sup> (1)	
<a href="#">United Kingdom</a>	0,1 fibres per cm <sup>3</sup>	0,6 fibres per cm <sup>3</sup> (10 mins)

	Remarks
<a href="#">Australia</a>	(1) Fibres longer than 5 µm, width less than 3 µm and with an aspect ratio of not less than 3:1, as measured by the membrane filter method, at 400-650X magnification phase contrast illumination.
<a href="#">Austria</a>	TRK value (based on technical feasibility)
<a href="#">Canada - Ontario</a>	(1) Respirable fibres: length > 5µm; aspect ratio =3:1, as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination
<a href="#">European Union</a>	<b>Bold-type: Binding Occupational Exposure Limit Value (BOELV) ~ (for references see <a href="#">bibliography</a>)</b>
<a href="#">Finland</a>	(1) Binding limit value



France	Bold value : Restrictive statutory limit values (1) This value will come into force on 1th july 2015
Germany (AGS)	(1) Bindung Occupational Exposure Limit Value - BOELV (EU) (2) Workplace exposure concentration corresponding to the proposed tolerable cancer risk. (see background document: Germany AGS) (3) Workplace exposure concentration corresponding to the proposed preliminary acceptable cancer risk. (see background document: Germany AGS) (4) 15 minutes average value
Japan (MHLW)	except amosite and crocidolite
Japan (JSOH)	(1) Fibres longer than 5 µm, diameter < 3 µm and with an aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400* magnification phase contrast illumination. (2) Reference value corresponding to an individual excess lifetime risk of cancer (3) Individual excess lifetime risk of cancer 10 <sup>-3</sup> (4) Individual excess lifetime risk of cancer 10 <sup>-4</sup> (5) except chrysotile
People's Republic of China	(1) Inhalable fraction
Sweden	others 0,5 fibre per cm <sup>3</sup>
USA - NIOSH	(1) in a 400 litre air sample, 100 min-TWA
United Kingdom	All fibrous forms. LV of 0.1 fibres per cm <sup>3</sup> is for a 4 hour reference period (1997 WHO phase contrast optical fibre counting method). An 'Approved Code of Practice' (L143, ISBN 0 7176 6206 3) requires action to be taken when short-term exposure exceeds 0.6 fibres per cm <sup>3</sup> (10 minutes reference period). UK regulations and codes of practice are summarised at <a href="http://www.hse.gov.uk/asbestos/regulations.htm">http://www.hse.gov.uk/asbestos/regulations.htm</a>