

## Worksheet for world asbestos consumption calculations

Apparent consumption calculation made using production data available on 5-31-2013 from the USGS and trade data available on 5-30-2013 from the United Nations Commodity Trade Statistics Database (Comtrade)

Exports are reported as negative numbers.

"0" represent quantities less than 1 metric ton and are the result of rounding. Actual quantities are entered into individual spreadsheet cells.

### ASBESTOS PRODUCTION, TRADE, AND CONSUMPTION IN 2012

(Metric tons)

Region	Production	Imports	Exports	Apparent consumption <sup>1</sup>
<b>Europe</b>				
Austria	--	--	-525	-525
Azerbaijan	--	655	--	655
Belarus	--	13,436	-297	13,138
Belgium	--	--	-425	-425
Bulgaria	--	--	-24	-24
Croatia	--	--	-1	-1
Cyprus	--	0	--	0
Czech Republic	--	1	-368	-367
Denmark	--	--	-40	-40
Estonia	--	1,373	--	1,373
France	--	14	-1,020	-1,006
Germany	--	554	-10	544
Gibraltar	--	0	--	0
Greece	--	24	--	24
Hungary	--	--	-3	-3
Ireland	--	7	--	7
Italy	--	--	-167	-167
Kazakhstan	241,200	24	-235,935	5,290
Kyrgyzstan	--	8,415	-225	8,190
Luxembourg	--	1	--	1
Netherlands	--	--	-4	-4
Moldova	--	60	--	60
Poland	--	--	-4,615	-4,615
Portugal	--	--	-100	-100
Romania	--	3	--	3
Russia	1,000,000	299	-844,823	155,476
Serbia	--	1	--	1
Slovakia	--	0	--	0
Spain	--	28	0	28
Switzerland	--	4	-10	-6
Tajikistan	--	120	--	120
Turkmenistan	--	6,684	--	6,684
Ukraine	--	43,373	-1,373	42,000
United Kingdom	--	0	0	0
Uzbekistan	--	103,608	--	103,608 *
Other areas (nonspecified)	--	--	-28	-28

Total (Europe)	1,241,200	178,684	-1,089,963	329,921
Africa				
Algeria	--	--	--	0
Angola	--	880	--	880
Botswana	--	2	--	2
Burundi	--	10	--	10
Cameroon	--	2	--	2
Congo (Kinshasha)	--	1	--	1
Egypt	--	1	-1	0
Ethopia	--	--	--	0
Ghana	--	1,424	-603	821
Kenya	--	--	-3	-3
Libya	--	0	--	0
Malawi	--	14	--	14
Mozambique	--	737	--	737
Nigeria	--	1,821	--	1,821
Rwanda	--	10	--	10
Sierre Leone	--	1	--	1
South Africa	--	1,360	-12	1,348
Sudan	--	175	--	175
Tanzania	--	2	--	2
Uganda	--	60	-193	-133
Zambia	--	810	--	810
Zimbabwe	--	3,940	--	3,940
Total (Africa)	--	11,251	-812	10,439
Central and North America				
Aruba	--	4	--	4
Belize	--	--	-320	-320
Canada	--	6	-1,577	-1,571
Cuba	--	10,329	--	10,329
El Salvador	--	1,242	--	1,242
Guatemala	--	0	-2	-2
Mexico	--	17,308	-288	17,020
U.S.	--	1,607	-47	1,560
Total (North America)	--	30,492	-2,234	28,258
South America				
Argentina	100	4	--	104
Bolivia	--	5,360	--	5,360
Brazil	306,500	11,932	-150,829	167,602
Colombia	--	25,164	0	25,164
Ecuador	--	4,735	--	4,735
Peru	--	1,149	--	1,149
Venezuela	--	60	--	60
Total (South America)	306,600	48,404	-150,829	204,175
Asia and the Middle East				
American Samoa	--	7	--	7
Bangladesh	--	2,232	--	2,232
Cambodia	--	4	--	4
China	420,000	180,257	-69,422	530,834
French Polynesia	--	0	-8	-8

India	20,000	473,240	-154	493,086
Indonesia	--	162,418	-595	161,824
Iran	--	0	-60	-60
Israel	--	--	-40	-40
Japan	--	--	-726	-726
Korea, Republic of	--	5	-1,492	-1,487
Laos	--	175	--	175
Lebanon	--	0		0
Malaysia	--	8,280	-5,930	2,350
Myanmar	--	0	--	0
Nepal	--	137	--	137
New Caledonia	--	--	-26	-26
North Korea	--	1,251	--	1,251
Pakistan	--	10,056	-2	10,054
Philippines	--	1,970	--	1,970
Qatar	--	--	-300	-300
Samoa	--	7	--	7
Saudi Arabia	--	27	-703	-676
Singapore	--	0	-96	-96
Sri Lanka	--	54,952	-248	54,704
Thailand	--	58,037	-28	58,008
Turkey	--	--	0	0
UAE	--	--	-3,350	-3,350
Vietnam	--	78,963	-54	78,909
Other areas (nonspecified)	--	610	-518	92
Total (Asia)	440,000	1,032,011	-83,754	1,388,782
Oceania				
Australia	--	0	0	0
New Zealand	--	34	--	34
Total (Oceania)	--	34	0	34
Other areas (nonspecified)	--	120	--	120
Grand total (World)	1,987,800	1,300,996	-1,327,592	1,961,728

-- Zero.

<sup>1</sup> Apparent consumption calculated as production plus imports minus exports, not adjusted to account for changes in Government and industry stocks. A negative number indicates net exports during the year.

Source for production data was the 2012 U.S. Geological Survey Minerals Yearbook chapter on asbestos. Sources for import and export data was the United Nations Statistical Division at <http://unstats.un.org/unsd/default.htm>. Note that in some cases, imports reported by one country do not equal the sum of the exports reported by other countries and vice-versa. In these cases, the number included in the table was selected based on industry trends. Trade data is frequently revised so apparent consumption calculation is a snapshot as of May 30, 2013, and may change in the future as new data is obtained.

\* A significant portion may have been put into stocks because Uzbekistan was importing 15,000 to 20,000 tons annually, except for 2009, 2010 and 2012.