

## 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 6-7-2012 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 2011

(Metric tons)

Region	Production	Imports	Exports	Apparent consumption <sup>1</sup>
<u>Europe</u>				
Albania	--	0	--	0
Armenia	--	255	--	255
Austria	--	--	-3	-3
Azerbaijan	--	360	--	360
Belarus	--	25,146	--	25,146
Belgium	--	0	--	0
Bosnia-Herzegovina	--	--	--	--
Bulgaria	--	0	--	0
Czech Republic	--	0	-53	-53
France	--	19	--	19
Georgia	--	0	--	0
Germany	--	88	-9	79
Greece	--	--	0	0
Hungary	--	--	--	--
Ireland	--	--	--	--
Italy	--	1	-1	-1
Kazakhstan	223,100	9	-67,943	155,166
Kyrgyzstan	--	8,224	--	8,224
Lithuania	--	0	--	0
Luxembourg	--	37	--	37
Netherlands	--	--	0	0
Moldova	--	60	--	60
Montenegro	--	22	--	22
Poland	--	35	-574	-539
Romania	--	--	--	--
Russia	1,000,000	2	-748,564	251,437
Serbia	--	--	-306	-306
Slovakia	--	64	--	64
Slovenia	--	--	--	--
Switzerland	--	12	-17	-5
Tajikistan	--	380	--	380
Turkmenistan	--	5,235	--	5,235
Ukraine	--	55,900	-40	55,860
United Kingdom	--	0	-1	-1
Uzbekistan	--	17,104	--	17,104
<b>Total (Europe)</b>	<b>1,223,100</b>	<b>112,952</b>	<b>-817,510</b>	<b>518,541</b>

Africa				
Algeria	--	0	--	0
Angola	--	1,320	--	1,320
Botswana	--	57	--	57
Cameroon	--	--	-18	-18
Chad	--	0	--	0
Congo (Kinshasha)	--	--	--	--
Egypt	--	--	-1	-1
Ethopia	--	0	--	0
Ghana	--	1,375	--	1,375
Kenya	--	20	--	20
Morocco	--	474	--	474
Mozambique	--	394	--	394
Niger	--	0	--	0
Nigeria	--	2,149	--	2,149
Rwanda	--	--	-360	-360
Senegal	--	1	-129	-128
Sierre Leone	--	0	--	0
South Africa	--	4,224	-16	4,208
Tanzania	--	1	--	1
Togo	--	130	--	130
Tunisia	--	--	--	--
Zambia	--	15	--	15
Zimbabwe	--	4,040	-47	3,993
Other areas (nonspecified)	--	903	--	903
<b>Total (Africa)</b>	<b>0</b>	<b>14,201</b>	<b>-570</b>	<b>14,533</b>
Central and North America				
Bahamas	--	39	--	39
Belize	--	--	-200	-200
Canada	50,000	90	-74,131	-24,041
Cuba	--	5,862	--	5,862
Dominica	--	--	--	--
Dominican Republic	--	0	--	0
El Salvador	--	964	--	964
Guatemala	--	--	--	--
Mexico	--	10,155	--	10,155
Netherlands Antilles	--	--	--	--
Panama	--	--	0	0
St. Vincent and the Grenadines	--	--	--	--
U.S.	--	1,178	-217	961
<b>Total (North America)</b>	<b>50,000</b>	<b>18,249</b>	<b>-74,548</b>	<b>-6,299</b>
South America				
Argentina	105	--	--	105
Bolivia	--	5,593	--	5,593
Brazil	306,321	17,155	-134,122	189,353
Colombia	--	20,138	-90	20,048
Ecuador	--	6,153	--	6,153
Paraguay	--	--	--	--
Peru	--	799	--	799
Venezuela	--	574	-1	573

Total (South America)	306,426	50,412	-134,213	222,625
Asia and the Middle East				
American Samoa	--	5	--	5
Bangladesh	--	4,370	--	4,370
China	440,000	254,190	-56,456	637,735
French Polynesia	--	--	-38	-38
India	19,000	302,915	-112	321,803
Indonesia	--	124,049	--	124,049
Iran	--	6,785	-41	6,744
Iraq	--	--	--	--
Japan	--	--	-41	-41
Jordan	--	--	--	--
Korea, Republic of	--	0	-13	-13
Laos	--	371	--	371
Malaysia	--	6,761	--	6,761
Maldives	--	--	--	--
Mongolia	--	335	--	335
Myanmar	--	256	--	256
Nepal	--	--	--	--
New Caledonia	--	--	-45	-45
North Korea	--	1,688	--	1,688
Oman	--	--	--	--
Pakistan	--	9,394	--	9,394
Philippines	--	3,245	--	3,245
Samoa	--	0	-5	-5
Saudi Arabia	--	--	--	--
Singapore	--	57	0	57
Sri Lanka	--	61,094	--	61,094
Syria	--	--	--	--
Thailand	--	81,411	-33	81,378
Turkey	--	--	0	0
UAE	--	221	-261	-40
Viet Nam	--	60,424	--	60,424
Total (Asia)	459,000	917,566	-57,047	1,319,525
Oceania				
New Zealand	--	45	0	45
Total (Oceania)	0	45	0	45
Other areas (nonspecified)	--	2,003	--	2,003
Grand total (World)	2,038,526	1,113,379	-1,081,885	2,070,974

-- 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 July 20, 2012, and may change in the future as new data is obtained.