

3/28/13

7881 Calculation of Number asbestos fibers per oz

	U0654	U0655	U1986
# fibers counted	1	4	3
EFA mm2	1256	1256	1256
#GO	10	10	10
GO Area mm2	0.013	0.013	0.013
Vol Filt ml	1	1	0.1
Dry Wt grams	0.0959	0.081	0.20567
Dry Wt oz*	0.0033828	0.002857	0.007255
Asb. fibers/oz	2.86E+08	1.35E+09	4.00E+09
Asb. fibers/oz	286 Million	1.4 Billion	4.0 Billion

* 28.34952 grams per oz

EQUATION: Number fibers per oz of talc

$$= (\# \text{ fibers-cted} * \text{EFA} * 100\text{ml}) / (\# \text{GO} * \text{GO Area} * \text{Vol filtered} * \text{Dry wt})$$

EFA = Effective Area of the filter

GO = Grid Opening

95% Conf Values based on ASTM Standard Method D6281-98

All 3 samples pass Chi-Squared test of section A6.2 of D6281

Upper and Lower 95% Confidence Values determined from Table A6.1 of D6281

	U0654	U0655	U1986
Asb. fibers/oz	286 Million	1.4 Billion	4.0 Billion
F/oz Upper Value	1.6 Billion	3.5 Billion	12 Billion
F/oz Lower Value	7 Million	369 Million	820 Million

