ASBESTOS IS 100% SAFE! RIGHT? ALAN LLOYD, CIH, CSP

4

6



PARTNERS FOR WHAT'S POSSIBLE

www.pennoni.com









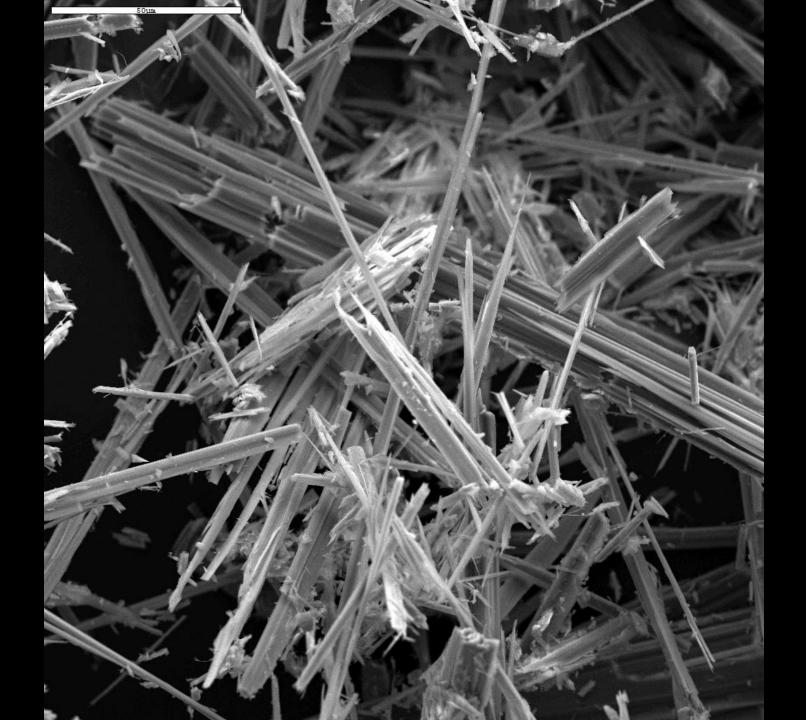


USEPA Certified Asbestos Building Inspector USEPA Certified Asbestos Management Planner **USEPA** Certified Asbestos Project Designer Commonwealth of Pennsylvania Asbestos Inspector City of Philadelphia Asbestos Investigator City of Philadelphia Asbestos Project Inspector State of Florida Licensed Asbestos Consultant New York State Asbestos Consultant State of Delaware Project Monitor New Jersey Asbestos Safety Technician Commonwealth of Virginia Asbestos Building Inspector State of Maine Asbestos Building Inspector Certified Industrial Hygienist Certified Safety Professional Environmental Sustainability Partner 40-Hour Hazwopper Certified

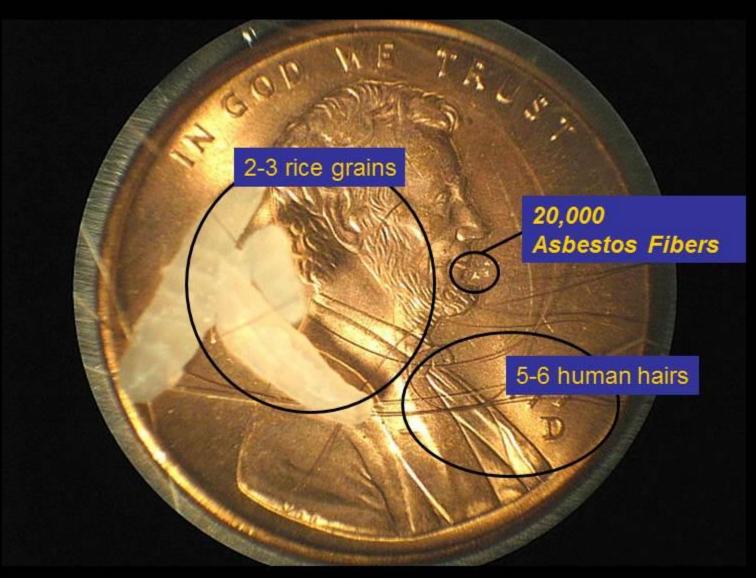
WHAT IS ASBESTOS?





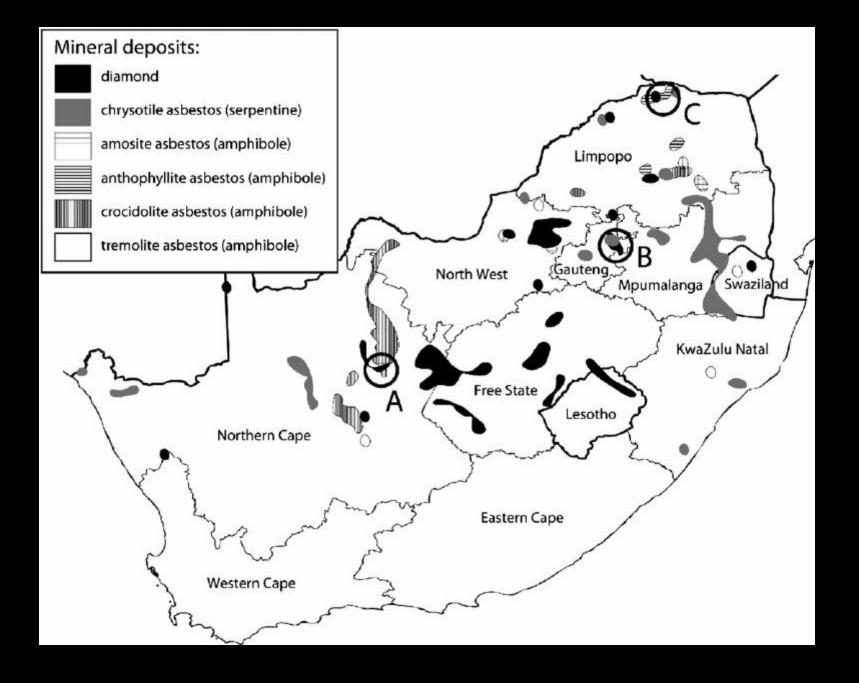


How small is asbestos?



www.AsbestosDiseaseAwarenessOrganization.org



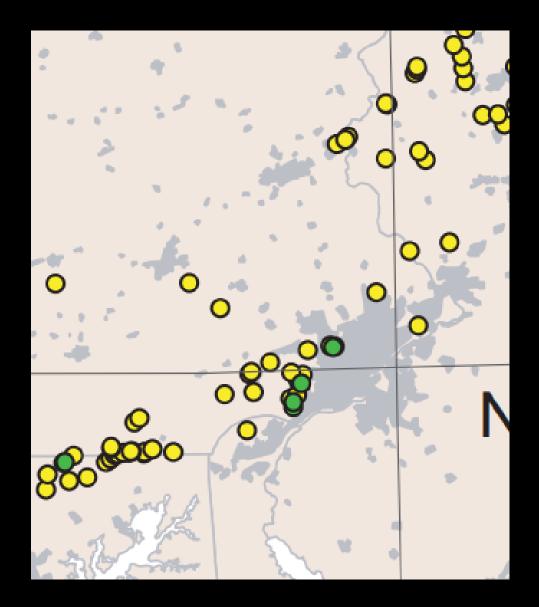














HOW IS ABESTOS USED?





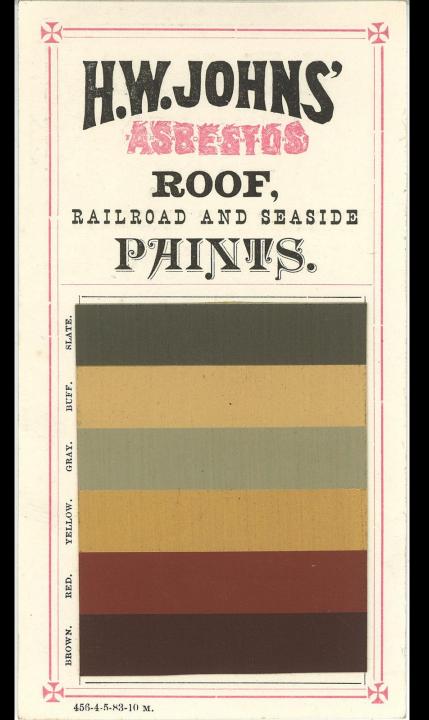












SCIENTIFIC AMERICAN

March 8, 1820

sbestos

CENTRAL CENTRAL BERTANS DECENTS DECENTS DECENTS

-but the roof didn't burn

If only the walk had been as faithful as the cost! But no --the roof was follow-Manylie Asbestos that aroutsend the fire --artically full on it. Manlesad it, iterally glacked it to death!

And so not only the neighborhood was saved, but even the property near door.

The walls were wood - not heich or terra costa hior most modern buildings, or even his the modest house adjoining.

But despite this, Asheitos Bassing here went one sup beyond the gename claim ever made for a. Bere in this and hundreds of other instances, Asheiton Beering not only protected from communication frebut structured its own fire as well. Not satisfied with policing the building-top for pours against the weather — it inddetily turned fireman and put out the black berauch it. And there a hange, mans, practionly intact, a inless sourceaid for fire safety.

Surely, new safety standards await our communities with the growing provalence of this staurich roofing.

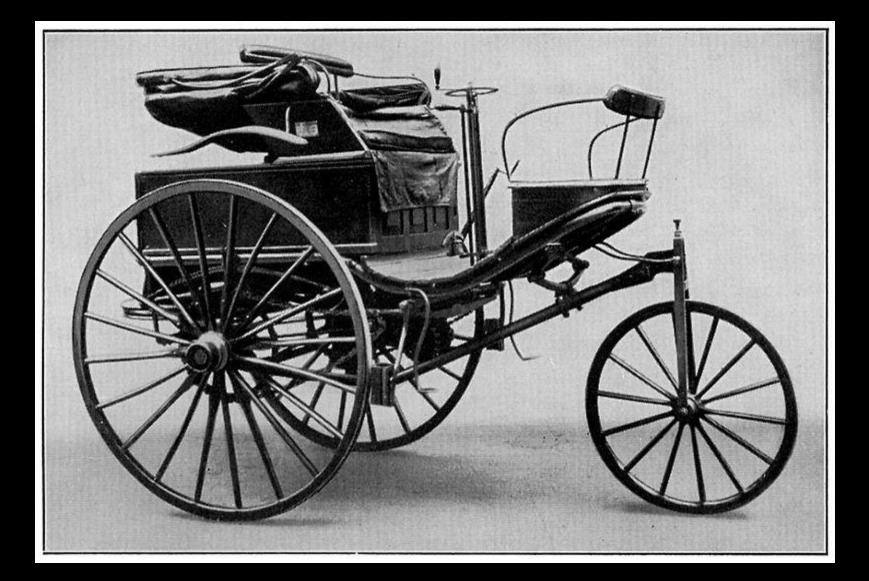
Surely there is sumething that transcends the commercial in preaching johns. Mony-like Asbeston Roofing from photographs like this one—for a text.

H. W. JOHNS MANYILLE CO. New York City

19 European - Anatolas in 62 Europe Units For Constr. Construction Inform Manuffly Co., Ltd., Termin

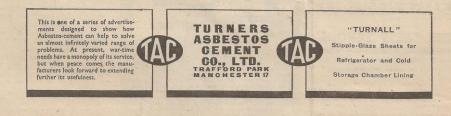
> Andrew Marrielle Andreases Reading- Advances Johnson Marrielle Advances Schaugher Indea Advances Schaugher Advances Advances Factores et al. Andrease Marrielle Marrielle Advances Factores and Advances Schauge

JOHNS-MANVILLE Serves in Conservation





The Nation's Need for **REFRIGERATOR LININGS**



ASBESTOS MITTS

These asbestos mitts for handling hot metal molds and shapes are reversible to fit either hand. Both sides quilted, won't shred or fray on rough, jagged material. Double wear, double life. Wool lined. All seams double stitched. The answer to troublesome problems. \$2.20 a pair. Discounts for quantities. One of 4300 production-speeding,

time-saving safety

gloves, aprons, sleeves, spats, etc. Write for Free catalog.

INDUSTRIAL GLOVES CO.

6547 Garfield Blvd., Danville, III. (In Canada: Safety Supply Co., Toronto)



ARE YOU GOING FLOOR-CARE CRAZY?

Get smart...get Flor-Ever

Dirt comes right off Flor-Ever, America's leading vinyl floor, —so Easy—so Fast

Arise, floor-cleaning slaves. Forget flooring aggravation—and add wonderful, gleaming color and smartness to your rooms, too. Discover Flor-Ever.

Flor-Ever is the micro-smooth vinyl floor that is cleaned so much easier. Flor-Ever is the vinyl floor you wax less because it's vinyl-bright. Flor-Ever is the glowing vinyl floor never harmed by ordinary kitchen mess.

> By the Yard -By the Tile

> > Flor-Ever

Sloane-Delaware, Trenton, N.J...Flor-Ever vinyl..linoleum..cork..enameled floorings

VINYL

for ...

FLOORING and COUNTER TOP

everywhere and every purpose

basement to attic... store or office...

And, Flor-Ever is setting new standards for wear.

Flor-Ever's vinyl-rich colors are today's decorator news. They're unbelievably beautiful. Furthermore, Flor-Ever in one of its many forms, is perfect for every place—over wood or concrete —basement to attic (or store, office, institution). See Flor-Ever's galaxy of colors and styles *oday*f.





Flor-Ever, in each price and purpose range, outwears equal non-vinyl floor coverings of even greater thickness. On this grinding machine Flor-Ever Standard has withstood as much abrasion as floorings 50% thicker.



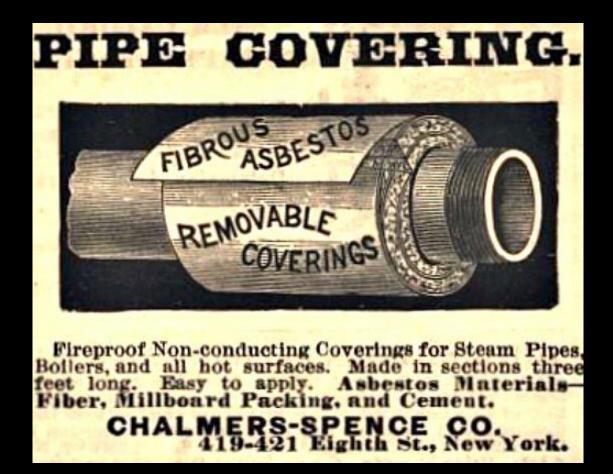
NO KITCHEN MESS CAN HARM No vegetable, animal or mineral fat, oil or grease ordinarily used in kitchens can harm any Flor.Ever-neither the Standard, the Vinyltone, Vinyl Asbestos, nor Universal.



VINYL LUSTER IS BUILT IN Flor-Ever, in any of its forms, is naturally lustrous; it's vinyl! The power-polished surface has a vinyl sparkle that lasts longer and light buffing with paste or liquid wax speedily increases its gloss.

a alamy stock photo

EXR1W7 www.alamy.com



The best cigarette NEWS for over 40 years

..THE FILTER TIP

that holds throat irritants

in check

SMOKE CLEAN SMOKE

ALL REPUTABLE MANUFACTURERS remove impurities from the cut tobacco leaf-but irritants developed when the tobacco burns can be removed only from the smoke itself. This the du Maurier Filter Tip does. Irritants are retained by the cellulose between the crepe paper which screens the smoke selectively, letting pass for your enjoyment the fragrance, aroma and flavor of the costliest American and princely Oriental leaf, specially blended.

du MAURIER

w w w

By cleansing the smoke, the du Maurier Filter Tip not only enhances flavor, it also keeps you fit, and protects your throat'from irritation.

> Filter - Jipped in the Scarlet Aluminum Box

20 cigarettes for 30¢

du MAURIER CIGARETTES When only the best will do

MADE IN U.S.A. BY COLUMBIA TOBACCO CO. INC., NEW YORK

What the du MAURIER SELECTIVE FILTER TIP does:

It provides the common-sense method of preventing smoker's throat because it effectively retains irritants.

It stops particles of tobacco getting into the mouth.

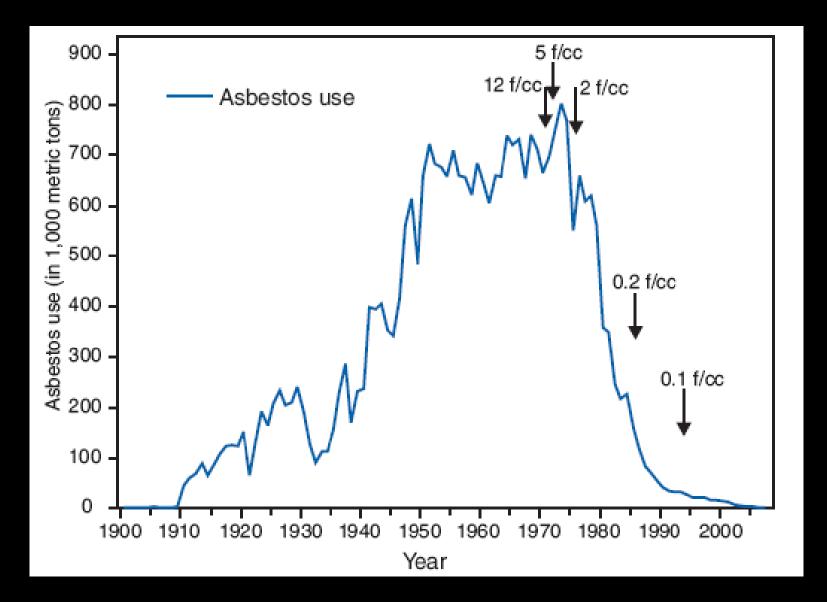
It guards physical fitness.

It protects lips and teeth from stain.

It avoids burning the tongue.

It brings out the flavor and makes the smoke delightfully sweet and cool.

It gives a cleaner, healthier and more satisfying smoke.

















Prohibited Products

•Corrugated paper

Commercial paper

•Flooring felt

Rollboard

•Specialty paper

•New uses of asbestos

Authorized Products

- Corrugated asbestos cement sheetFlat asbestos cement sheet
- Vinyl asbestos floor tile
- •Asbestos cement pipes
- •Asbestos cement shingles
- Friction materials
- Brake linings
- Clutch facing
- •Disc brake pads
- Asbestos clothing
- •Automatic transmission components
- Roofing felt
- Roof coating
- Non-roof coatings
- Millboard
- •Pipeline wrap
- •Acetylene cylinder filler
- Asbestos diaphragms
- •High grade electrical paper
- Packings

- •Sealant tape
- Brake blocks
- •Missile liners
- Arc shutes
- Battery separators
- •Reinforced plastic
- Textile products
- Gaskets

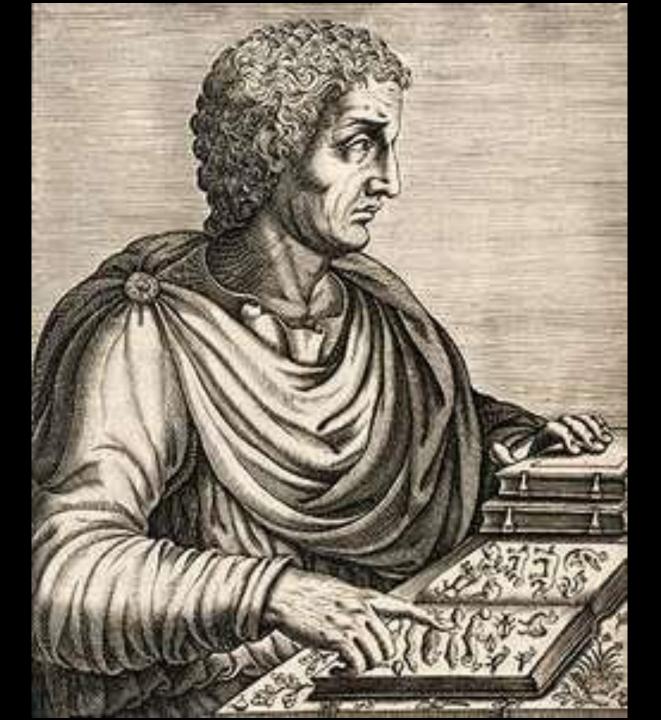


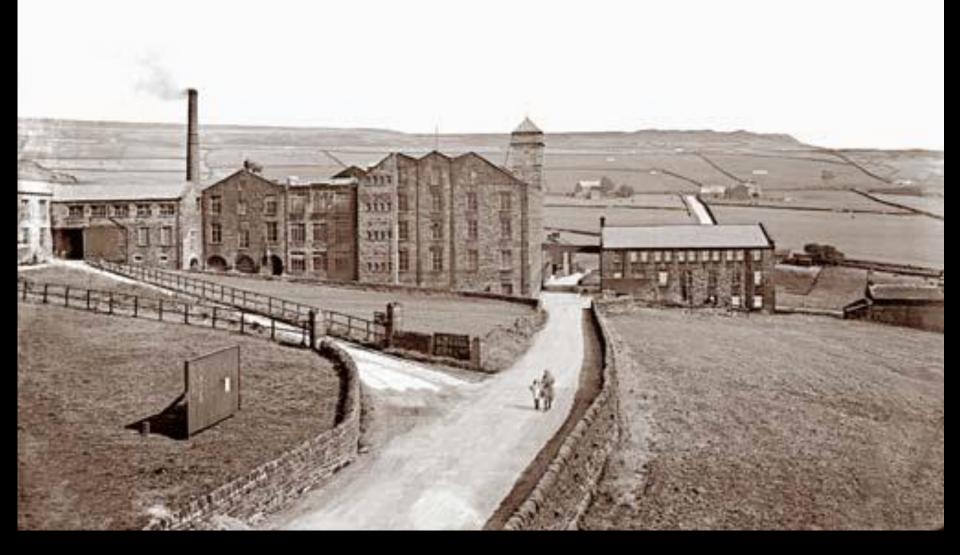




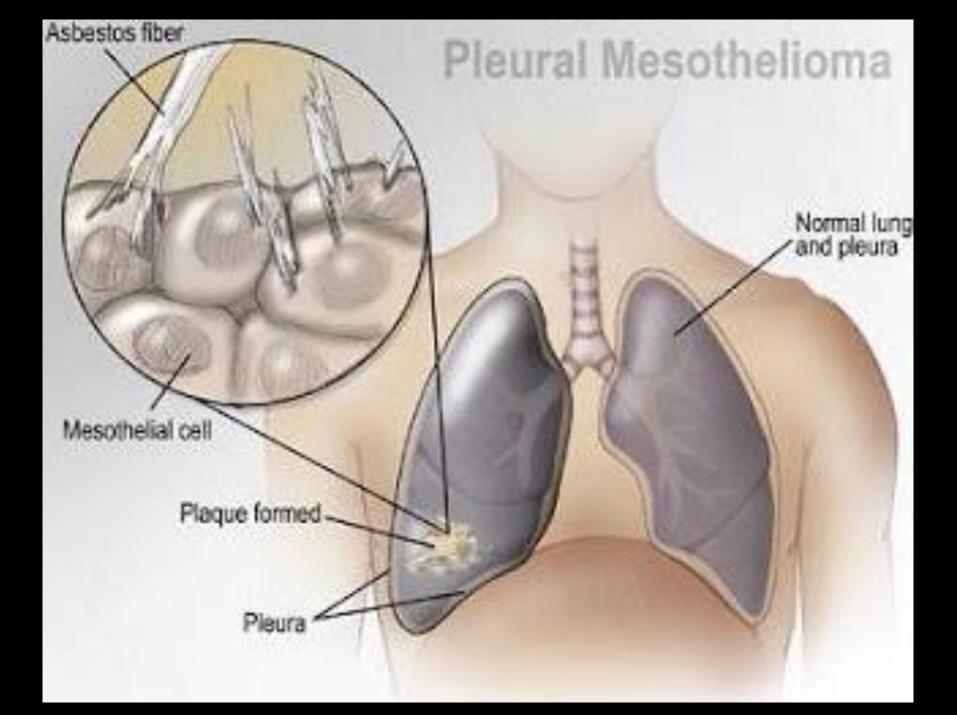
Used in over 3,000 products.

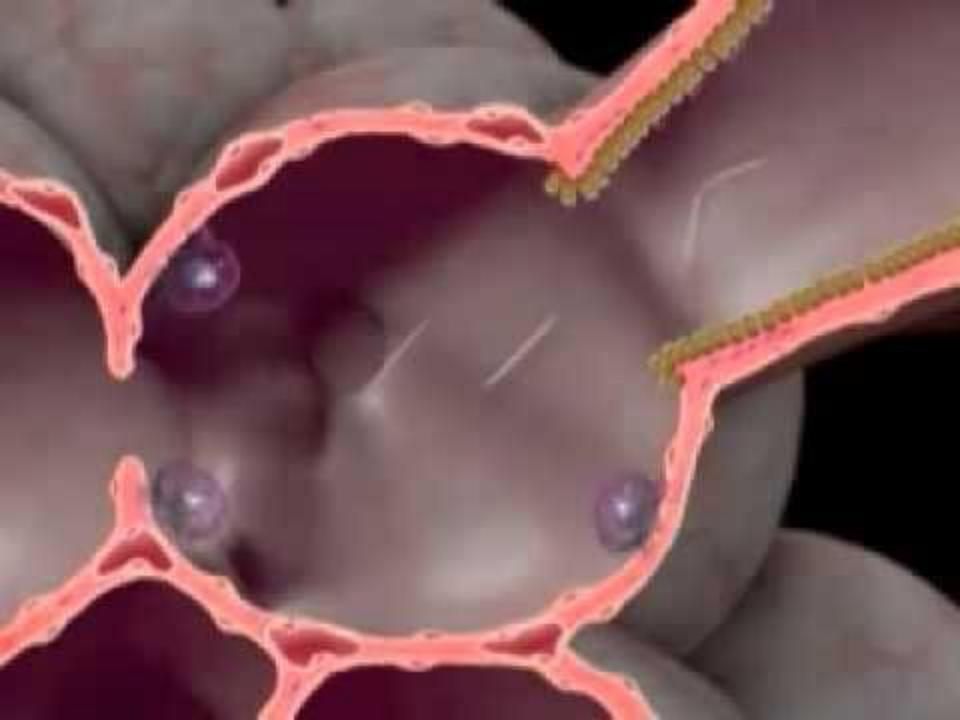
IS ASBESTOS 100% SAFE?

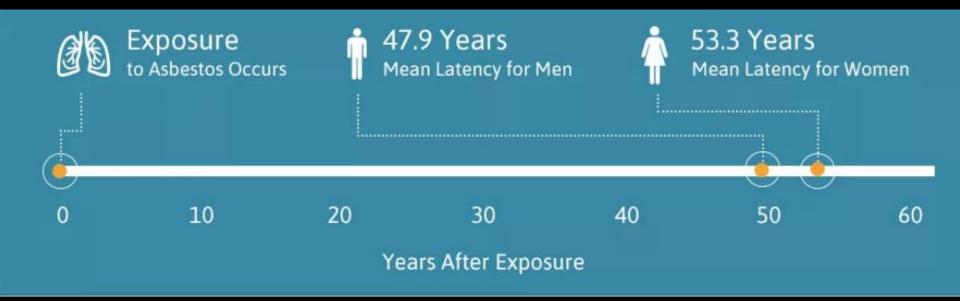


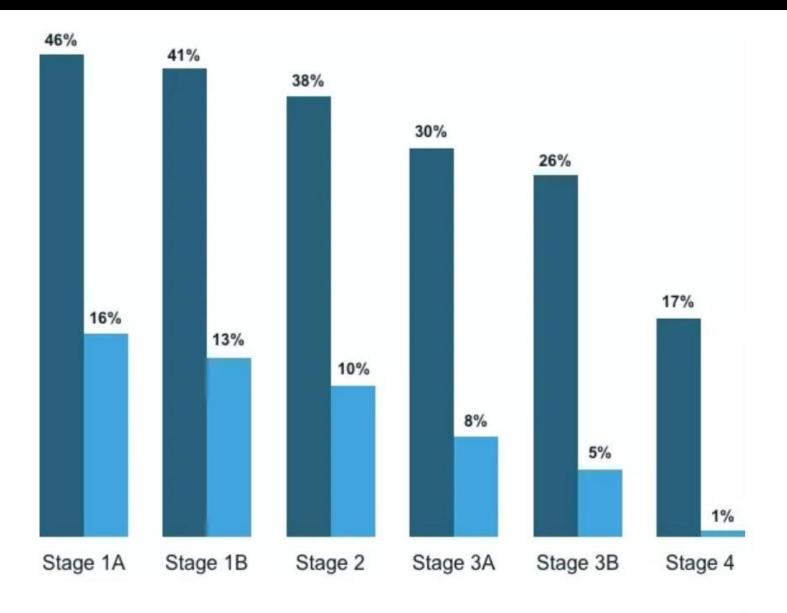








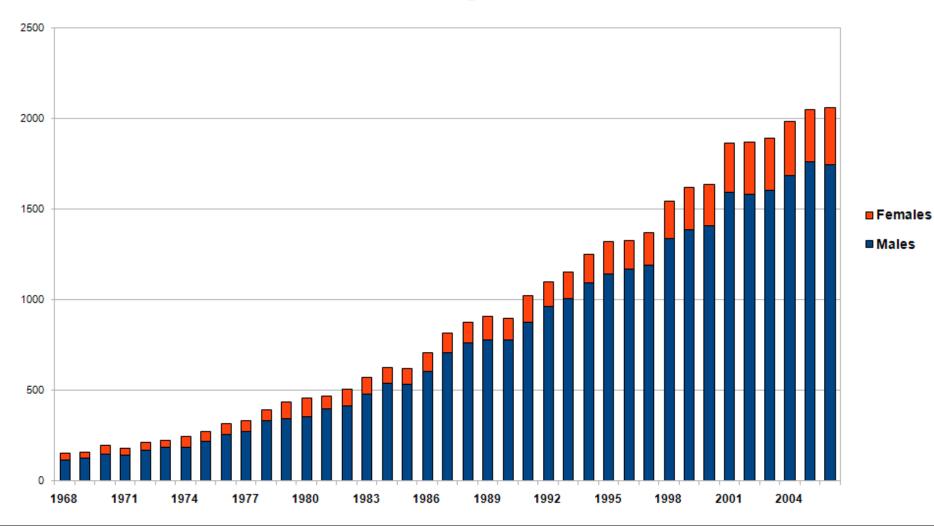


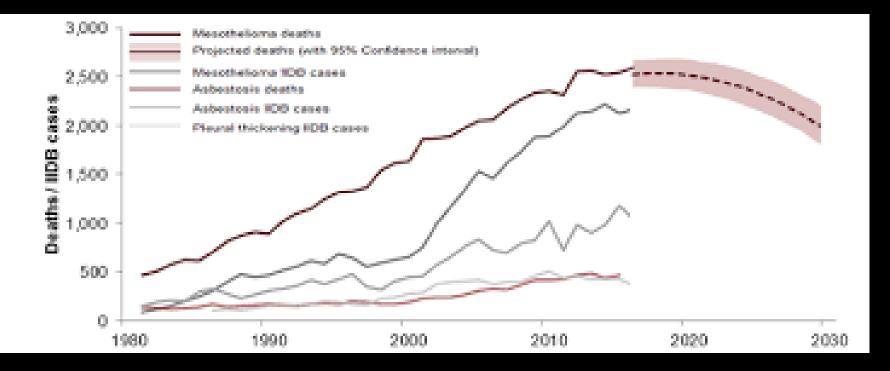


2-Year Survival Rate

5-Year Survival Rate

Death certificates mentioning mesothelioma, 1968-2006





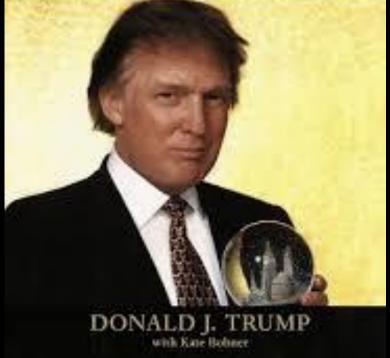
ACCORDING TO WORLD HEALTH ORGANIZATION

MORE 107,000 PEOPLE DIE EACH YEAR

FROM ASBESTOS-RELATED LUNG CANCER, MESOTHELIOMA AND ASBESTOSIS RESULTING FROM OCCUPATIONAL EXPOSURE



THE ART OF THE COMEBACK



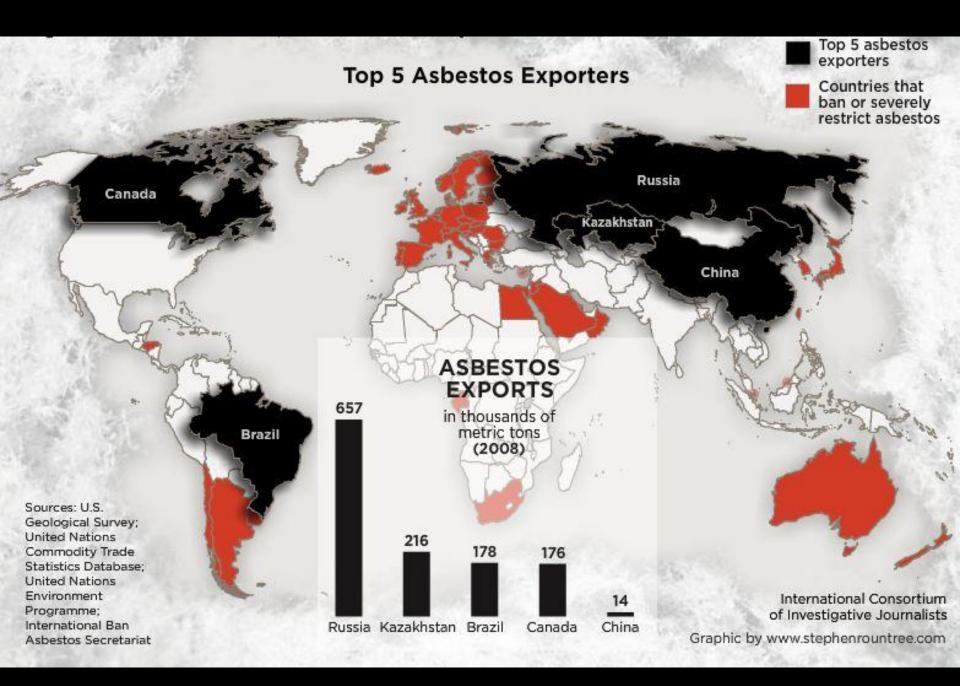
In his 1997 book, "The Art of the Comeback," **President Donald** Trump claimed asbestos is "100 percent safe, once applied."

IS ABESTOS BANNED?

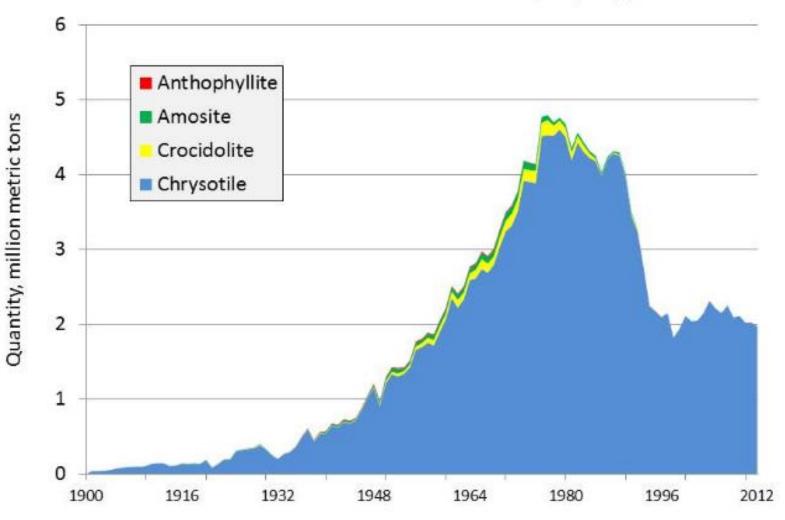
Countries with Bans on Asbestos



Countries with Full or Partial Bans Countries Expected to Ban Asbestos Completely by 2020 Countries with No Bans



World Production of Asbestos, by Type



Clean Air Act of 1970 classified asbestos as a hazardous air pollutant and gave the EPA the power to regulate the use and disposal of asbestos. Spray-applied asbestos products were banned with the passage of this act.

In 1976, the **Toxic Substances Control Act (TSCA)** provided the EPA the authority to place restrictions on asbestos.

The Asbestos Hazard Emergency Response Act of 1986 (AHERA) made the EPA establish standards for inspecting and removing <u>asbestos in schools</u>. In 1990, the EPA expanded the certification requirements to apply to commercial buildings.

In July 1989, the EPA issued the **Asbestos Ban and Phase-Out Rule (ABPR)**, which <u>planned</u> to impose a full ban on the manufacturing, importation, processing and sale of asbestoscontaining products. ... never happened...overturned in 1991 and could only be applied to a few products...

The EPA determined that six categories of asbestos-containing products fit that classification, including:

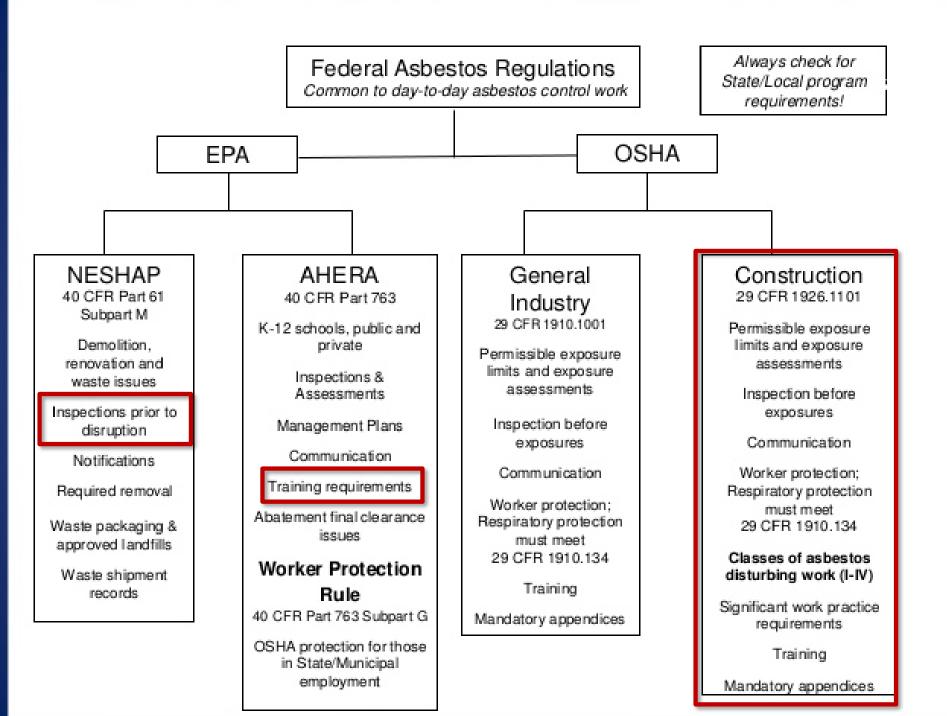
Flooring felt
Rollboard
Commercial paper
Corrugated paper
Specialty paper
New uses of asbestos

Only spray-applied asbestos and these six products are banned in the U.S. All other uses of asbestos, such as automotive brake pads and gaskets, roofing products, floor tiles, joint compound, etc are legal.

1994 – OSHA Asbestos in Construction Standard

2016 - Frank R. Lautenberg Chemical Safety for the 21st Century Act

April 5, 2019 – Significant New Use Rule. Becomes effective June 5, 2019 FEDERAL DEMO/RENO REQUIREMENTS



OSHA

- Covers asbestos exposure to all workers.
- Defines what is asbestos-containing.
- Employer responsibilities.



OSHA

- MUST presume if not tested.
- Presume vs Assume

Presumed Asbestos Containing Material means thermal system insulation and surfacing material found in buildings constructed no later than <u>1980</u>.





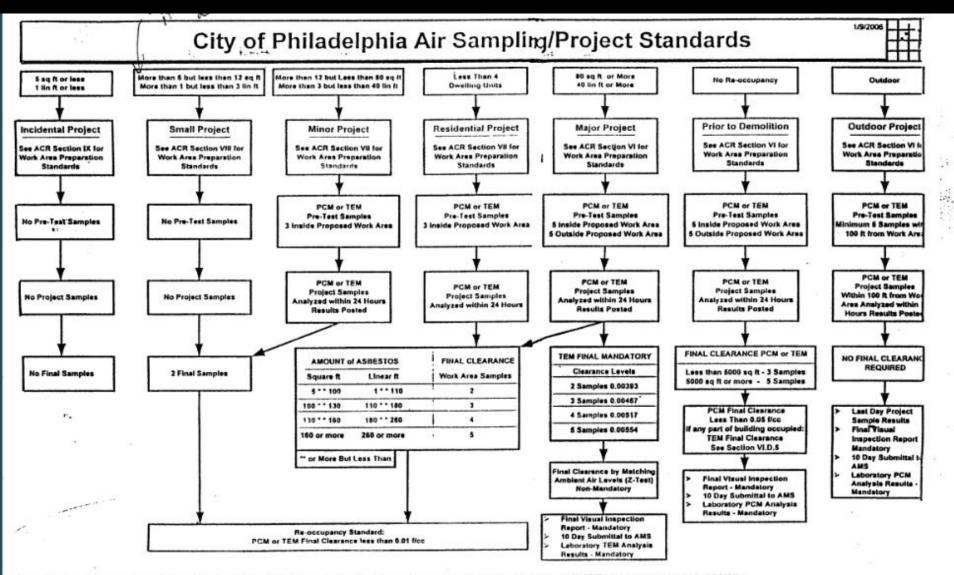
OSHA determined that buildings constructed after January 1981 are <u>less likely</u> to have asbestos-containing materials installed in them, <u>but this is</u> <u>not for certain.</u>

- LOI, September 5, 1996

Presume vs Assume

PENNSYLVANIA REQUIREMENTS?

CITY OF PHILADELPHIA REQUIREMENTS?



Date Received L&I: Date Received AMS: City of Philadelphia - Department of Public Heelth Public Health Services - Air Management Services onty Asbestos Control Unit - 321 University Av., 19104 8 Laborator # Date Inspected: CB10 Asbestos Inspection Report Phone # Address Name of Building: HOAGIE CITY . 2136-38 MARKET ST Phone # 300 W. 43KP ST Name of Building Owner: CORP New YORK, NY 10036-1406 STB INVESTMENT Phone # License # Name of Licensed Investigator: 0321 Lenneth Phone # License # Name of Certified Lab: Scope of Work: (include all locations) No. Asbestor Found Could not complete the inspection because the building or a portion of has been declared imminently dangetous (ID) and in danger of collapse. INVESTIGATOR MUST BE ON SITE DURING DEMOLITION) Asbestos Containing Material Present? Yes (List Below) WNo List Ashestos Containing Material (ACM) located in the planned renovation/demolition area(s). Damaged ACM must be listed and then repaired or removed prior to renovation. You (Investigator) must label all ACM that may be left in the work area. Page 1 of Condition Action Amount Type (Code 2) (Code 3) Description (Code 1) Square Linear Location Code 3 Code 1 Code 2 REM - Removal necessary prior to Demo/Reno DD - Deteriorated or FRI - Friable NRN - No removal necessary, label ACM Delaminated NF1 - Non-Prinble, Cat. I REP - Repair & Label ACM, removal not necessary NF2 - Non-Friable, Cat. 2 ND - Non-Domaged I hereby certify that the foregoing statements are true and the information contained in this report is true. This certification is made subject to the penalties set forth in 18 PA. C.S. \$4904 relating to unsworn falsification to authorities. Furthermore I certify that the inspection, sampling, and tabeling requirements of section X of the Asbestos Control Regulation (ACR) have been met. The building owner has been notified of the ACR requirements and given a copy of this report. If the inspection has revealed ACM which will be disturbed by the proposed work or if it has revealed ACM in had condition, the building owner has been notified to remove or repair the ACM in accordance with the ACR prior to renovation or deteolition activity. Signerure of Building Owner 28.13 Signature of Ligensed Asbestos Avesilation: BE-HALK 1hell OF STB INVESTMENTS 3

Asbestos in the News

- Philadelphia Schools (\$170 M)
 - Claire's Cosmetics
 - Asbestos in Drinking Water
 - J&J Baby Powder Case
- Man Arrested for Dumping Asbestos
- Contractor pleads guilty to mishandling asbestos
- Contractor pleads guilty to improperly removing asbestos
 - Asbestos endangering workers on jobsite

Question everything