



Asbestos in 15 Minutes

Topics

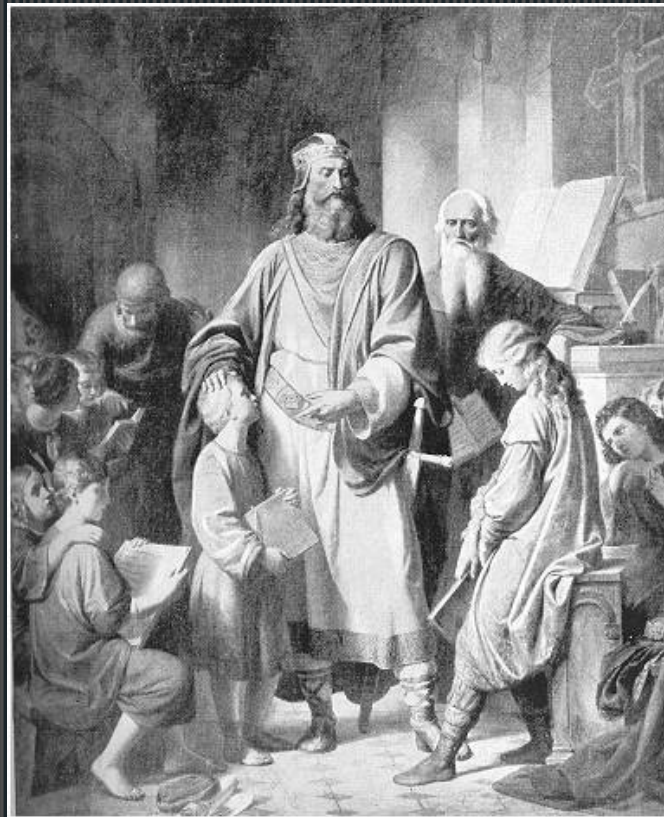
Asbestos Products and Uses

Health Effects

Asbestos Control

Legal Claims and Issues

1. Products and Uses



Charlemagne and his Scholars by Karl von Blaas









Products and Uses

Insulation

Industrial Products

Friction Products (brakes and clutches)

Consumer Products

2. Health Effects



Diseases

Pleural abnormalities (plaques, thickening)

Asbestosis

Lung Cancer

Mesothelioma

Other cancers

Dose

“All substances are poisonous, there is none which is not a poison; the right dose differentiates a poison from a remedy.”

Paracelsus (Theophrastus Philippus Aureolus Bombastus von Hohenheim), circa 1538



Occupational Exposure-Dose

Reference	Standard [fiber/cc]	Lifetime Exposure - Dose [fiber yr/mL]
1938 -1971 TLV*	~ 12 to 30	600 to 1500
Dec 1971 PEL*	5	250
Jul 1976 PEL*	2	100
Jun 1986 PEL*	0.2	25
Aug 1994 PEL*	0.1	5
Full-time gasket/packing work	< 0.03***	<1.5
median exposure – dose** among insulation workers with mesothelioma		375

* 50-year working life time; **Boelter, Crawford, Podraza. AIHAJ (2002)**

** mixed dust exposure: amphibole, other fibers and serpentine



THE THIEVES GOT NO ASBESTOS!

With all the loot which the Axis has seized, one coveted item they did not get is Asbestos. Not one ton of Asbestos suitable for war purposes is produced in any of the countries which have been plundered. Nor is any produced in Germany, Italy, or Japan.

Well may they worry, for Asbestos is essential for tanks and trucks, ships and planes. We make no claim that this lack in itself will defeat the enemy, but it will certainly help to do it.

The United States requires tremendous quantities of Asbestos, but produces only five per cent of its needs. It must therefore look to other countries for the balance. What a great advantage, then, is the fact that every Asbestos-producing country in the world is anti-Axis!

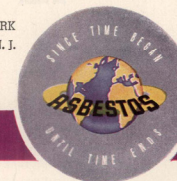
Australia, Bolivia, Canada, China, Cyprus, India, Rhodesia, Russia, South Africa. All are members of the United Nations. Each, in spite of increased demand and greater difficulty of production and transportation, continues to ship its particular type of Asbestos for America's war industries.

Asbestos Limited Inc. has had twenty-five years experience as specialist in importing and processing every known type of Asbestos from all over the world. If you have a problem in which Asbestos is used, our time and our experience are at your service, without obligation, to speed America's war production . . . and Victory.

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Every type of raw Asbestos carried in stock: *Arizona • Australian • Bolivian • Canadian • Chinese • Cyprus • Indian Rhodesian • Russian • South African Blue and Yellow. Manufacturers of Asbestos Cement Board and Cyprus Asbestos Siding • Creators and exclusive manufacturers of New Era Insulation, lightest rigid insulation for all temperatures.*



Trade Mark Registered

DANGER

ASBESTOS

**CANCER AND LUNG DISEASE
HAZARD**

KEEP OUT

**AUTHORIZED
PERSONNEL ONLY**

**RESPIRATORS AND
PROTECTIVE CLOTHING
ARE REQUIRED IN
THIS AREA**

Evolving Understanding

Different diseases

Different Trades

Different Doses

Different Products

Different Role of Government

3. Asbestos Control



Asbestos Control

Work methods

Ventilation

Respiratory protection

Warnings

Containment

Abatement

Substitutes

4. Legal Claims and Issues



Legal Claims and Issues

Products Liability (strict liability)

Premises Liability (negligence)

Employer Liability (gross negligence/ intentional tort)

Failure to Warn

Foreseeability

Liability Shares

VORYS has one of the largest asbestos defense practices in the United States.



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