

Appendix C. Asbestos-Containing Materials Found in Buildings*

Asbestos-containing construction materials and products can be divided into two categories:

- **Category I** — Friable materials; and
- **Category II** — Nonfriable matrix-bonded composite products, and textile products.

Friable materials are those which can be crumbled, pulverized, or reduced to powder in the hand—readily releasing fibers with minimal mechanical disturbance. Most insulating materials sprayed or troweled onto surfaces are friable.

Nonfriable, matrix-bonded composite products are prepared by mixing fibers with various bonding agents (e.g., starch, glue, plastics, cements, asphalt). The degree of asbestos fiber immobilization and the degree of release vary according to use, environmental conditions, and physical damage. Friable materials covered with a hard wrap or coating, such as pipe insulation, are considered nonfriable unless damage to the wrap exposes the friable material.

In asbestos textile products, raw asbestos fibers and fibers of numerous other materials, both of organic and inorganic origin, are worked into rovings, yarns and cords and can be woven, braided, or knitted. Usually, binding agents are not used in these products but many are coated.

Each of the two major categories can be subdivided into several more specific groups of products. Table C-1 contains information on the percent asbestos, generic name, dates of use, and binder/sizing of the subdivision.

1950-1951	1950-1951	1950-1951
1951-1952	1951-1952	1951-1952
1952-1953	1952-1953	1952-1953
1953-1954	1953-1954	1953-1954
1954-1955	1954-1955	1954-1955
1955-1956	1955-1956	1955-1956
1956-1957	1956-1957	1956-1957
1957-1958	1957-1958	1957-1958
1958-1959	1958-1959	1958-1959
1959-1960	1959-1960	1959-1960
1960-1961	1960-1961	1960-1961
1961-1962	1961-1962	1961-1962
1962-1963	1962-1963	1962-1963
1963-1964	1963-1964	1963-1964
1964-1965	1964-1965	1964-1965
1965-1966	1965-1966	1965-1966
1966-1967	1966-1967	1966-1967
1967-1968	1967-1968	1967-1968
1968-1969	1968-1969	1968-1969
1969-1970	1969-1970	1969-1970
1970-1971	1970-1971	1970-1971
1971-1972	1971-1972	1971-1972
1972-1973	1972-1973	1972-1973
1973-1974	1973-1974	1973-1974
1974-1975	1974-1975	1974-1975
1975-1976	1975-1976	1975-1976
1976-1977	1976-1977	1976-1977
1977-1978	1977-1978	1977-1978
1978-1979	1978-1979	1978-1979
1979-1980	1979-1980	1979-1980
1980-1981	1980-1981	1980-1981
1981-1982	1981-1982	1981-1982
1982-1983	1982-1983	1982-1983
1983-1984	1983-1984	1983-1984
1984-1985	1984-1985	1984-1985
1985-1986	1985-1986	1985-1986
1986-1987	1986-1987	1986-1987
1987-1988	1987-1988	1987-1988
1988-1989	1988-1989	1988-1989
1989-1990	1989-1990	1989-1990
1990-1991	1990-1991	1990-1991
1991-1992	1991-1992	1991-1992
1992-1993	1992-1993	1992-1993
1993-1994	1993-1994	1993-1994
1994-1995	1994-1995	1994-1995
1995-1996	1995-1996	1995-1996
1996-1997	1996-1997	1996-1997
1997-1998	1997-1998	1997-1998
1998-1999	1998-1999	1998-1999
1999-2000	1999-2000	1999-2000
2000-2001	2000-2001	2000-2001
2001-2002	2001-2002	2001-2002
2002-2003	2002-2003	2002-2003
2003-2004	2003-2004	2003-2004
2004-2005	2004-2005	2004-2005
2005-2006	2005-2006	2005-2006
2006-2007	2006-2007	2006-2007
2007-2008	2007-2008	2007-2008
2008-2009	2008-2009	2008-2009
2009-2010	2009-2010	2009-2010
2010-2011	2010-2011	2010-2011
2011-2012	2011-2012	2011-2012
2012-2013	2012-2013	2012-2013
2013-2014	2013-2014	2013-2014
2014-2015	2014-2015	2014-2015
2015-2016	2015-2016	2015-2016
2016-2017	2016-2017	2016-2017
2017-2018	2017-2018	2017-2018
2018-2019	2018-2019	2018-2019
2019-2020	2019-2020	2019-2020
2020-2021	2020-2021	2020-2021
2021-2022	2021-2022	2021-2022
2022-2023	2022-2023	2022-2023
2023-2024	2023-2024	2023-2024
2024-2025	2024-2025	2024-2025
2025-2026	2025-2026	2025-2026
2026-2027	2026-2027	2026-2027
2027-2028	2027-2028	2027-2028
2028-2029	2028-2029	2028-2029

*The information in this Appendix is taken, with modification, from: Lory EE, Coin DC. February 1981. *Management Procedure for Assessment of Friable Asbestos Insulating Material*. Port Hueneme, CA: Civil Engineering Laboratory Naval Construction Battalion Center. The U.S. Navy prohibits the use of asbestos-containing materials when acceptable nonasbestos substitutes have been identified.