

Addenda to American National Standard

Z21.35-1989

for

PILOT GAS FILTERS

ANSI

Z21.35a-1993

PART I

CONSTRUCTION

1.5 MARKING

1.5.2 Individual gas filters, with or without an adjustment means, shall bear a separate marking indicating the date of manufacture. This marking shall be as specified in "a" or "b" below.

a. The date in the form of:

1. The month, day and year; or
2. The day, month and year.

The abbreviation of the month shall be at least the first three letters of the month. The day may be the Monday of the week and the year must be at least two digits of the year.

b. A four digit code consisting of:

1. The first and second digits indicating the calendar year in which the component was manufactured (e.g., 93 for 1993); and

2. The third and fourth digits indicating the week in which the component was manufactured (e.g., 03 for the third week of the year). For purposes of this marking, a week shall begin at 0001 hours on Sunday and end at 2400 hours on Saturday.

A four digit code may be used for more than one week; however, it shall not be used for more than four consecutive weeks, nor more than two weeks into the next calendar year.

If space limitation prevents the use of a four digit code, an alternative date code acceptable to the testing agency shall be provided.

Additional numbers, letters or symbols may follow the four digit code. If additional numbers are used, they shall be separated from the four digit code.

NOTE: Changes, other than editorial, are denoted by a vertical line in the margin.

Approved January 13, 1993 by American National Standards Institute, Inc.

Secretariat: American Gas Association
1515 Wilson Boulevard, Arlington, Virginia 22209



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PART III**MANUFACTURING AND PRODUCTION TESTS**

The manufacturer shall submit to the certifying agency a plan which is mutually acceptable to the manufacturer and certifying agency and which describes the programs and test procedures specified in 3.1, 3.2 and 3.3 and the records to be kept by the manufacturer.

3.1 The manufacturer shall use a program to qualify raw materials, parts assemblies and purchased components.

3.2 The manufacturer shall test each filter at room temperature (2.3) for leakage.

3.3 The manufacturer shall use a program which includes a mutually acceptable schedule(s) to conduct the following test, as applicable:

- a. Capacity (2.4); and
- b. Strength (2.2).

3.4 The manufacturer's test method(s) shall be capable of relating back to the test(s) specified in the standard. For ease of reference, section numbers of tests in Part I and Part II of the standard are provided in parentheses.

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American National Standard
for
PILOT GAS FILTERS

**(Formerly American National Standard for
Gas Filters on Appliances)**

Approved
April 19, 1989
AMERICAN NATIONAL
STANDARDS INSTITUTE, INC.

Secretariat
AMERICAN GAS ASSOCIATION
1515 Wilson Boulevard
Arlington, Virginia 22209



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PREFACE

This publication represents a standard for safe operation, substantial and durable construction, and acceptable performance for pilot gas filters. It is the result of years of experience in the utilization of gas, supplemented by extensive research.

Nothing in this standard is to be considered as in any way indicating a measure of quality beyond compliance with the provisions it contains. It is designed to allow compliance of pilot gas filters, the construction and performance of which may exceed the various provisions specified herein. In its preparation, full recognition has been given to possibilities of improvement through ingenuity of design. As progress takes place, revisions may become necessary. When they are believed desirable, recommendations should be forwarded to the Chairman of Accredited Standards Committee Z21, 8501 East Pleasant Valley Road, Cleveland, Ohio 44131.

CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute, Inc., require that action be taken to reaffirm, revise or withdraw this standard no later than five (5) years from the date of approval. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute, Inc., 1430 Broadway, New York, N. Y. 10018, (212) 354-3300.

EFFECTIVE DATE: An organization using this standard for product evaluation as a part of its certification program will normally establish the date by which all products certified by that organization should comply with this standard.

HISTORY OF THE DEVELOPMENT OF STANDARD FOR PILOT GAS FILTERS

(This History is informative and is not a part of the standard)

The stoppage of constant-burning pilots, particularly those used with manufactured gas, was an industry problem of sufficient importance to warrant special study. At its October 22, 1941 meeting, Sectional Committee Z21, an independent committee operating in accordance with American Standards Association procedures, reviewed a proposal that all pilots on appliances for use with manufactured gas be equipped with properly installed devices for protection against rust, gum and other materials. A decision was reached to conduct an investigation of various gum protective devices and formulate standards covering them.

After obtaining information from gas companies and manufacturers familiar with the gum problem, the American Gas Association Laboratories undertook a detailed study of contemporary types of gum protective devices. Based on the results of this study, a suggested standard was prepared. This was considered at the October 25, 1943 meeting of the Z21 Committee and several modifications were suggested. It was decided to organize a special group from the Committee membership to study the matter further and place the standard in final draft form.

The suggestions were included in a revised draft of the standard, which was discussed by the Special Subcommittee on Listing Requirements for Gum Protective Devices at its December 14, 1943 meeting and agreement reached on principal details. Following interchange of correspondence between the members, the draft standard was distributed for industry review during May 1944.

At its July 14, 1944 meeting, following reconsideration and modification in light of comments received, the special subcommittee recommended the draft standard to the Z21 Committee. The Committee, at its October 3, 1944 meeting, approved the draft standard. The proposed standard was endorsed as American Standard by the American Standards Association in 1945.

The increasing use of natural gas, and the diminishing use of manufactured gas, prompted the subcommittee to prepare draft revisions to the standard, which then covered only gum filters for manufactured gas, to add coverage to address dust filters for fuel gases other than manufactured gas. These proposals included changing the designation of these devices from "Gum Protective Devices" to

"Gas Filters." Following industry review and subcommittee reconsideration of the draft revisions in light of comments received, the Z21 Committee approved the draft revisions at its March 26, 1964 meeting. The draft revisions were subsequently endorsed as American Standard by the American Standards Association, Inc. in 1964.

On August 24, 1966 the American Standards Association, Inc., was reconstituted as the United States of America Standards Institute. As a result all former American Standards were renamed USA Standards.

The continued decline in the use of manufactured gas, plus a strong desire by the industry for filtering pilot gas, led the subcommittee to prepare further revisions to the standard to cover "universal" type gas filters for all gases rather than addressing gum filters and dust filters separately. Following the above procedure, these revisions were included in the third edition of the gas filter standard which was endorsed as USA Standard by the USA Standards Institute in 1969.

On October 6, 1969, the United States of America Standards Institute was renamed the American National Standards Institute, Inc.

At its July 25, 1979 meeting, the gas filter subcommittee initiated a redraft of the Standard for Gas Filters on Appliances to update and correlate the standard with other Z21 control device standards.

At its April 1982 meeting, the Committee disbanded the gas filter subcommittee and transferred the gas filter standard (Z21.35) to the supervision of its Subcommittee on Standards for Gas Appliance Thermostats and Automatic Gas Ignition Systems. This was to provide a more balanced and diversified input for the gas filter standard and provide continuity between the standards for pilots and pilot gas filters.

With the assistance of a working group, the automatic gas ignition systems subcommittee continued the redraft of the gas filter standard. Following a series of meetings, the redraft (renamed the "pilot" gas filter standard) was subsequently adopted by the subcommittee at its February 17-18, 1987 meeting and distributed for industry review during September 1987.

At its November 17-18, 1987 meeting, following reconsideration and modification in light of comments received, the automatic gas ignition systems subcommittee recommended the redraft to the Z21 Committee. The Z21 Committee, at its April 14, 1988 meeting, adopted the redraft of the gas filter standard for submittal to the American National Standards Institute, Inc., for consideration of approval.

This, the fourth edition of the standard for pilot gas filters was approved by the American National Standards Institute, Inc. on April 19, 1989.

Previous editions of the gas filter standard approved by the American National Standards Institute, or its predecessor organizations are as follows:

Z21.35-1945
Z21.35-1964
Z21.35-1969 (R1974) (R1980)

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