ANSI H35.1 / H35.1(M)-2024
Revision of H35.1/ H35.1(M)-2017

American National Standard Alloy and Temper Designation Systems for Aluminum

Secretariat
The Aluminum Association
Incorporated

American National Standard

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Secretariat

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Foreword

This Standard is a revision of ANSI Standard H35.1/H35.1(M)-2017 Alloy and Temper Designation Systems for Aluminum.

Initially, the Standard consisted of only the alloy designation system for wrought aluminum developed by The Aluminum Association and adopted by that organization in 1954. A booklet describing the system was issued in July 1954 and was approved under the existing standards procedure of the American Standards Association as American Standard H35.1-1957.

All major producers of wrought aluminum alloys in the United States adopted the Aluminum Association Alloy Designation System for Wrought Aluminum on October 1, 1954. A Military Standard (MIL-STD-192) covering the new system was issued in October 1955. The Society of Automotive Engineers began using the designations in 1956, and the American Society for Testing and Materials in 1958.

The Standard was reissued in 1962 to add the temper designation system that had been in effect in the United States since 1948. Subsequently, MIL-STD-192 was cancelled, since it was the equivalent to American Standard H35.1-1962.

This Standard was originally developed and subsequently revised using the "canvas" method and published under the proprietary sponsorship of the Aluminum Association. At the request of the Aluminum Association, the establishment of Standards Committee H35 on Aluminum Alloys was authorized by the American National Standards Institute on 17 February 1970, with the Association serving as Secretariat.

The 1971 revision of ANSI H35.1 was the first revision developed by Standards Committee H35, under the "Standards Committee" procedures, and the 1972, 1975, 1978, and 1982 revisions were developed under the auspices of that Committee.

Standards Committee H35 was transferred to an Accredited Standards Committee on December 28, 1983, and this revision was developed under the Accredited Standards Committee method.

The latest 2024 edition includes the introduction of the designation system for aluminum powders and aluminum alloy powders, and revisions to the exceptions to the criteria governing chemical composition limits for xxx.2 ingots. These changes are indicated by highlights in the text.