I'm human

The document outlines minimum mechanical properties for various aluminum alloys in different product forms and tempers. It lists alloy, product, thickness range, and minimum values for tensile strength, yield strength, and elongation. The Aluminum Association has released the 2020 edition of the Aluminum Design Manual, which is updated every five years. The manual includes the Specification for Aluminum Structures, providing allowable strength and load and resistance factor design of aluminum structures, members, and connections. It also features a commentary to the specification, a design guide, material properties, section properties for common aluminum products, design aids, and illustrative examples. The manual has undergone significant changes compared to the 2015 edition. The Aluminum Association is considering a six-year interval between revisions to the manual, which may be more suitable for standards like the Specification for Aluminum Structures that are referenced by the International Building Code (IBC). Additionally, the association has released the 2024 edition of Aluminum Standards & Data (AS&D), an essential resource for aluminium alloy and temper designations, chemical composition limits, mechanical properties, and tolerances. The publication incorporates content from the latest edition of the American National Standards Institute (ANSI) standard H35.2, providing additional material on standardization topics and terminology. The Aluminum Association has released the 2024 edition of Aluminum Standards & Data, a crucial resource for the aluminum industry, featuring expanded alloy and temper properties, including the addition of 6060-T51 and 6061-T61 tempers. This update also introduces a detailed description of the association's designation system for aluminum and aluminum alloys in powder form, addressing the growing popularity of powder aluminum in additive manufacturing. The new edition offers invaluable insights that drive progress across aluminum's many markets, with over 200 updates, including expanded tolerance table thickness ranges for sheet and plate products, clarifications of footnotes, and corrections to heat treatment procedures. Concurrently, the Aluminum Association has published new editions of the ANSI H35 standards series, providing the framework for aluminum alloy designations, chemical compositions, and dimensional tolerances. The 2024 editions of Aluminum Standards & Data and the new ANSI H35 series standards are now available for purchase, ensuring that aluminum professionals have access to the most current and accurate information to drive innovation and maintain high standards of quality. The updated version of Aluminum Standards & Data has been released, featuring novel applications across multiple markets. It includes a detailed overview of the association's designation system for aluminum and aluminum alloys in powder form, catering to the increasing demand for powder aluminum in additive manufacturing. According to Charles Johnson, President & CEO of the Aluminum Association, "This edition continues our 70-year tradition of innovation and quality in the aluminum industry." The 2024 AS&D boasts over 200 updates, such as expanded tolerance table thickness ranges, clarifications on footnotes, and definitions of common terms. The Aluminum Association has also published new editions of the ANSI H35 standards series. This includes revised and reaffirmed standards that provide a framework for aluminum alloy designations, chemical compositions, dimensional tolerances, and more. The updated 2024 editions of Aluminum Standards & Data and the ANSI H35 series standards are now available for purchase at www.aluminum.org/bookstore.