Aluminum alloys for packaging - proceedings of a symposium sponsored by the Struuctural [sic] Materials Division (SMD), Non-Ferrous Metals Committee, held at Materials Week 92 in Chicago, Illinois, November 1-5, 1992

The Society - Forming of Aluminum Alloys

Description: -
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Microeconomics
Aluminum alloys -- Congresses.
Aluminum in packaging -- Congresses.Aluminum alloys for packaging - proceedings of a symposium sponsored by the Struuctural [sic] Materials Division (SMD), Non-Ferrous Metals Committee, held at Materials Week 92 in Chicago, Illinois, November 1-5, 1992
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Forming of Aluminum Alloys

It is an up-to-date reference that will be of use to researchers and advanced students in metallurgy and materials engineering. The addition of magnesium in excess 100 and 200% of that required to form MgZn 2 further increases tensile strength. Foil is an effective barrier to light and is used extensively to package photographic materials and other light-sensitive products.

Forming of Aluminum Alloys

Edwards, Welding of Aluminum Alloys. Advances in drawing techniques are expected to promote greater use of the stronger tempers of 5052, including the extra-hard H19.

Aluminum Alloys

With both commercial-purity aluminum and alloys, broad ranges in mechanical properties are available through varying degrees of work hardening.

Aluminum Alloys for Packaging Applications

This means larger welding machines are needed for spot welding aluminum alloys and energy consumption is also higher.

Aluminum Alloys

Over the past decades, aluminum alloys have been developed with significant, concurrent improvements to both strength and other properties, as shown in Figs. The early effort was on developing alloys with as high a strength as possible, which, however, resulted in corresponding reductions of toughness and corrosion resistance. For example, the outer door panel is fitted to the inner door panel by bending its peripheral edges 180° over the inner door panel.

Forming of Aluminum Alloys

These elements have a restricted solubility in solid aluminum and form a soft, low-melting phase that promotes chip breaking and helps to lubricate the cutting tool. About 1950, the aluminum-magnesium alloys, such as 5050 and 5052 in H36 temper, were introduced for the larger-diameter closures, where higher strength is required.

Forming of Aluminum Alloys

Aluminum foil has become firmly established as one of the major flexible packaging materials.

The Aluminum Association

Cerium, mostly in the form of mischmetal rare earths with 50 to 60% Ce , has been added experimentally to casting alloys to increase fluidity and reduce die sticking. The strengthening is maximum between 4 and 6% Cu, depending upon the influence of other constituents present.

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