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aluminum alloys are among the easiest of all metals to form and machine the precipitation hardening alloys can be formed in a relatively soft state and then heat treated to much higher strength levels after forming operations are complete

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aluminum is a lightweight material with a density of 2.7 g/cm³ (0.1 lb/in³) pure aluminum and its alloys have the face centered cubic fcc structure which is stable up to its melting point at 657 c (1215 f) because the fcc structure contains multiple slip planes this crystalline structure greatly contributes to the excellent

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aluminum and aluminum alloys have many outstanding attributes that lead to a wide range of applications including good corrosion and oxidation resistance high electrical and thermal conductivities low density high reflectivity high ductility and reasonably high strength and relatively low cost

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~~this article discusses the composition structures properties~~ ^{Copy}
and behaviors of aluminum alloys and explains how they
correspond to specific alloying elements

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volume 2b covers the metallurgy processing fabrication
properties and performance of aluminum alloys the articles in
the first section of the volume provide details on the
selection of aluminum alloys to meet specific design and
performance criteria

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this volume provides in depth coverage on the properties
performance structural design specifications and development
of aluminum alloys the effects of alloy metallurgy processing
and structure are described in detail for mechanical
properties in design fatigue and fracture resistance
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