

Zamak 7 Technical Bulletin

Zamak 7 (ASTM AG40B), or Zinc Alloy 7, is a modification of Zamak 3. It is a high-purity alloy containing lower magnesium content and has a tighter impurities specification. This results in improved casting fluidity, ductility and surface finish.

Applications ideal for Zamak 7

Zamak 7 is mostly used for special hardware applications, or when castings require extra formability during subsequent assembly operations such as crimping or staking. Its higher fluidity also allows thinner walls to be cast:

- Higher fluidity is sometimes desirable especially on components with intricate detail, however it does present special casting considerations
- In order to avoid excessive flashing along the tool parting lines, good die fit and close control of casting process parameters is necessary
- The high ductility exhibited by this alloy also has an impact on processing, but mainly in secondary operations for flash removal and trimming
- Zamak 7 exhibits excellent damping capacity and vibration attenuation in comparison with aluminum die casting alloys

Recommended Casting Temperature 395-425°C



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