

ZINC vs. ALUMINIUM

Zinc Die Casting is an economical process with **excellent flow properties**. This allows **thin wall thicknesses** and **complex part geometries** to be achieved while **maintaining good mechanical properties**.



Aluminium Die Casting demonstrates its advantages in **large parts** where weight is critical.

MATERIAL COMPARISON

ZINC vs. ALUMINIUM

Energy efficiency

- Zinc die casting uses at least **50 % less energy** for the same number of equal-sized parts.

Higher yield strength

- At room temperature, the **yield strength** is **significantly higher**.

More positive characteristics

- **Shear, torsional, and flexural strength**

More detailed processes

- In **zinc die casting**, much **tighter tolerances** can be achieved.

Higher hardness

- Zinc alloys exhibit **greater hardness** compared to aluminium alloys.

Better shielding

- Zinc alloys are perfect for **shielding sensitive electronics** against electromagnetic fields.

Tooling costs

- Lower thermal loads **reduce tool costs** and **increase tool-life**.
- The tool life is often well over 1,000,000 shots.

