



Minnesota Wire & Cable Co.

Investment Casting

Imported from 3-D CAD software, shrink factors are precalculated, CAD profiles are manipulated and wax patterns are generated with dimensional conformity.

This wax pattern is repeatedly dipped in a ceramic slurry until a strong shell coating surrounds the pattern. Once the process is completed, the shell is heated and the wax pattern is melted out to leave a cavity in the mold. This mold is then used for casting metal.



- Choose between several hundred alloys for pouring
- Excellence in part finish, detail and dimensional conformity
- Materials include most metals (steel, stainless steel, aluminum, zinc, etc.)
- Tolerances of +/- .005 per inch
- No upfront tooling needed
- Good for early development design verification
- Perfect for small volume and smaller parts
- Lead time can be as short as 3-7 days depending on size and complexity