Investment Casting Process

PROCESS BENEFITS OF INVESTMENT CASTINGS (Lost wax CASTINGS)

The process is capable of making parts from prototypes to high volume.
Investment Casting tooling is capable of making over 1 million parts per tool.
Cast tolerance to +/- .005 or better, per inch Cast surface finish of 125 RMS or better
Excellent cast details with regards to cast letter i.e. logo, names, part number, etc
Reduced machining due to castings designed to near net shape
Investment castings can have undercuts, blind holes, thru holes .250 or greater
and, almost any geometric shape or size Investment Casting. Often called lost wax casting, is regarded as a precision casting process to fabricate near-net shaped metal parts poured from almost any alloy including: stainless steel, aluminum, brass, bronze and copper. Casting by the investment process allows for parts to meet x-ray and non destructive testing specifications for: military, aerospace, semi conductor industry, valves, pumps and many other industrial applications. The investment casting process consistently provides high integrity (sound) and dimensionally accurate castings. Cast part dimensions vary less than +/- .001 from part to part. Investment casting uses a mold that has been produced by surrounding an expendable pattern with a refractory slurry that sets at room temperature. The pattern (usually of wax or plastic) is then melted or burned out, leaving the mold cavity. Investment casting is also known as the lost wax process?and as precision casting?