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Aluminum Alloy Investment Castings

SHENGFA Hardware is a reliable source for aluminum investment castings information and leading aluminum alloy investment castings factory & supplier in Ningbo China. Aluminum and aluminum alloys are among the most regular materials for investment casting; Other castable metal may be used such as copper, brass or steel. One of the benefits for the casting parts is that they require little or even no machining or finishing after they are cast. SHENGFA Hardware was established in 2007, since then we have been driven to remain a cut above the competition in investment castings and other business we do. We have our own tooling shop filled with state-of-the-art testing machines. We ensure perfect results and products every time. It is our mission to establish lifelong relationships with our customers by providing good quality products at low cost and on time delivery. Contact us to know more about our aluminum alloy investment castings service today.

The Introduction and Development of Investment Casting

Investment casting is an industrial manufacturing process based on lost-wax casting, one of the oldest known metal-forming techniques. The term "lost-wax casting" can also refer to modern investment casting processes. At first, it has been used in jewelry making for centuries but are now finding many more uses including precision instruments, engine parts, and medical equipment. Because of the wide application of manufactured metal parts, aluminum alloy investment castings are found in the automotive, dental, mining, medical, food machinery, sports, and telecommunication industries.

Investment casting is generally used for small precision parts that would be very difficult to produce through any other method. Aluminum alloy investment castings can have walls as thin as half a millimeter. They range from a fraction of an ounce to over 1,000 pounds though most castings are 15 pounds or less.

Aluminum alloy contains a high percentage of aluminum alloyed with copper, magnesium, silicon, tin, manganese or zinc. They are lightweight and corrosion resistant and are the alloy of choice for many aerospace applications due to these properties. Aluminum alloys can be strengthened through either heat treatment or cold-working processes, depending on the alloys.



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The Advantage of Working with SHENGFA Hardware as Your Supplier

Rely on over 15 years history in investment casting, SHENGFA Hardware has the full ability of producing aluminum alloy investment castings with an exceptional surface finish and fine detail. SHENGFA has our own reputation as a top aluminum investment castings supplier in Ningbo China.

All of our aluminum alloy investment castings are manufactured by the method of the precision investment casting process. We can produce complex structure that many other factories even do not know how to manufacture. Aluminum alloy casting molds are built exclusively by hand with only the best raw materials that are available. With capabilities to provide from only a few grams up to 10 pounds, SHENGFA Hardware produces aluminum alloy investment castings for many diversified industrial markets

Contact Us to Discuss Your Investment Casting Project Right Now

Product Parameters

Material	Carbon steel, alloy steel, stainless steel, copper Alloy
Process	Investment (lost wax) casting + CNC machining
Casting dimension tolerance	CT7
Casting surface roughness	Ra 12.5 um
Casting weight range	0.1-90 kg
Casting Size	Max linear size: 1200 mm, Max diameter size: 600 mm
Machining Precision	Positioning accuracy 0.008 mm, Rep. position. accuracy 0.006 mm
Machining surface roughness	Ra0.8 ~ 6.3 um
Max Travel Of Spindle	1900 mm x 850 mm x 700 mm
Max Turning Diameter	830 mm
Material standard	GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
Surface treatment	KTL (E-coating), Zinc plating, Mirror Polishing, Sand Blasting, Acid pickling, black oxide, Painting, Hot galvanizing, Powder coating, Nickel plating.
Service available	OEM & ODM



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Quality control	0 defects, 100% inspection before packing
Application	<ul style="list-style-type: none">• Aerospace and defense• Power generation• Automotive• Oil and gas• Space exploration• Medical/orthopedics• Agriculture• Construction• Commercial and consumer products