



Xiamen XINZ Mechanical Technology Co.,Ltd

Add: Room 1401, No. 1, B Block, Hubian Garden, Huli District,
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XINZ China is one of the most professional Aluminum Casting manufacturers in China. We have more than 10 years experience in aluminum casting mold design, aluminum casting manufacturing. It is our aim to provide casting mold design, casting manufacturing, heat treatment, machining, surface finish treatment, packing and shipping service to our customers. From us, our customers can have one step sourcing in China for the aluminum casting parts, which are made of A356.0 or A357.0.

Our aluminum casting parts are widely used in auto industry, aviation industry, LED lighting industry. Such as cylinder head of auto engine, aluminum housing for high bay light, valve bodies, pit lids, etc.

Our key products, material and where used:

1. Aluminum Pit Lid, A357.0, with T6 heat treatment, Aviation Fueling hydrant system pit cover, Endure more than 40 tons loading.



2. Valve Body, A356.0, with T6 heat treatment, Fluid management valves, endure more than 275 psi pressure.





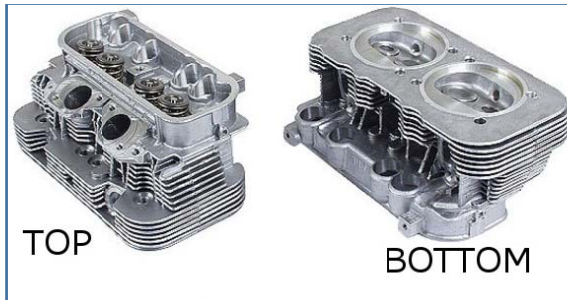
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3. Cylinder Head, A356.0, with T6 heat treatment, Auto Engine, Robust and Reliable.



4. Aluminum light housing, A356.0, with T6 heat treatment,



5. Aluminum Housing, A356.0-T6, low pressure die casting, Auto spare parts.





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A356.0 aluminum casting alloy comparison:

| A356 ALUMINIUM alloy CASTING MATERIAL COMPARISON TABLE | | | | | | | |
|--|--------|--------|----|--------|-----------|-------|----------|
| China | USA | | UK | France | Germany | Japan | ISO |
| GB | ASTM | ANSI | BS | NF | DIN | JIS | |
| ZL101 | A03560 | 356 | \ | A-S7C | G-ALSi7Mg | AC4C | AlSi7Mg |
| ZL101A | A13560 | A356.0 | \ | \ | \ | \ | AlSi7MgA |

A356.0 Chemical composition:

| Type | Chemical Component (%) | | | | | | | | | | | |
|--------|------------------------|---------|----------|-----|-----------|-----------|----|----------|----------|----------|-----|-------------|
| | Al | Si | Fe(max.) | Cu | Mn (max.) | Mg(max.) | Cr | Ni(max.) | Zn(max.) | Sn(max.) | Ti | Other(max.) |
| A356.0 | Remain | 6.5-7.5 | 0.2 | 0.2 | 0.1 | 0.25-0.45 | \ | \ | 0.1 | \ | 0.2 | 0.15 |

A356-T6 Mechanical properties:

| A356-T6 Mechanical Properties | | | |
|-------------------------------|------------------|--|----------------|
| Type | Tensile Strength | | Yield Strength |
| | Mpa | | Mpa |
| A356-T6 | 205 | | 140 |
| | | | 3 |

A357.0 Chemical Composition:

TABLE 1 - COMPOSITION

| Element | min | max |
|-----------------------|-----------|------|
| Silicon | 6.5 | 7.5 |
| Iron | -- | 0.20 |
| Copper | -- | 0.20 |
| Manganese | -- | 0.10 |
| Magnesium | 0.40 | 0.7 |
| Zinc | -- | 0.10 |
| Titanium | 0.04 | 0.20 |
| Beryllium | 0.04 | 0.07 |
| Other Elements, each | -- | 0.05 |
| Other Elements, total | -- | 0.15 |
| Aluminum | remainder | |

A357-T6 Mechanical Properties:

| A356-T6 Mechanical Properties | | | |
|-------------------------------|------------------|--|----------------|
| Type | Tensile Strength | | Yield Strength |
| | Mpa | | Mpa |
| A356-T6 | 283 | | 221 |
| | | | 3 |