



SHELLCAST FOUNDRIES INC.

PRECISION CASTINGS BY THE LOST WAX PROCESS

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Core Capability:

- Aluminum Investment Castings

Capabilities:

- Design-for-Manufacturing Assistance
- Advanced Aluminum Alloys
- Concurrent Engineering
- Prototype Castings Using SLA Models
- Finished Parts
- Small Assemblies
- Fasteners Installation
- In-House Material Testing

High-strength Aluminum Casting Alloy A205/AMS 4471

- ✓ Elimination of defects traditionally associated with high-strength 200-series copper alloys
- ✓ Elimination of hot tearing or segregation defects common in 200-series alloys
- ✓ Elimination of aluminium copper alloy castability and welding related issues
- ✓ Elimination of segregation issues in large sections
- ✓ Improved properties at elevated temperatures over traditional cast alloys (400F+)
- ✓ Improved compositional and mechanical properties
- ✓ Improved resistance to stress corrosion cracking
- ✓ Fluidity comparable to aluminum silicon alloys

| Typical Mechanical Properties | | | |
|-------------------------------|----------------|------------------|------------|
| Alloy | Yield Strength | Tensile Strength | Elongation |
| A205 T7 Typical | 65 ksi | 75 ksi | 5% |

- ✓ Consistent homogeneity of mechanical properties regardless of section thicknesses
- ✓ Reduction of shrinkage or porosity
- ✓ Exceptional fatigue properties
- ✓ Limitless possibilities for casting design



• NDT · QA System
 • Heat Treating
 • Chemical Etching
 • Welding



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