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 aluminum 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.

Accredited Nadcap™

NDT
QA System
Heat Treating
Chemical Etching
Welding

ISO 9001 · AS 9100C · C-TPAT · ITAR

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