

WGB Industries Inc.

ALLOY 535.2

Alloy 535.2 is a high-purity aluminum-magnesium alloy known for its excellent corrosion resistance, particularly in marine environments.

It possess a high and stable combination of strength and shock resistance along with exhibiting high ductility. This makes it suitable for brackets, clamps and housings that require higher strength and elongation. Good weldability, excellent machining, high resistant to corrosion and due to the lack of silicon gives this alloy an excellent rating on colored anodize finishes.

APPLICATIONS

- **Boat Components**
- **Railings**
- **Engine Parts**
- **Valves & Fittings**
- **Motor Housings**
- **Structural Components**
- **Bracket Mounts**
- **Pump housings**
- **Wheels & Rims**
- **Decorative Pannels**

Mechanical Properties

Alloy 535.2 (commonly referred to as Almag 535) offers a combination of mechanical properties that make it desirable for applications requiring strength, corrosion resistance, and machinability.

Typical casting applications only require F Temper.

Chemical Composition Limits by %

- **Silicon (Si): .15 max**
- **Iron (Fe): .15 max**
- **Copper (Cu): .05 max**
- **Manganese (Mn): .10-.25**
- **Magnesium (Mg): 6.2-7.5**
- **Titanium (Ti): .10-.25**
- **Other elements, total: .15**
- **Aluminum (Al): Balance**

- **As-Cast (F)**
- **Tensile Strength: 40 ksi)**
- **Yield Strength: 20 (ksi)**
- **Elongation: 130% in 2"**
- **Brinell Hardness: 70**



MADE IN THE USA