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AM 10Mg Data sheet

AM 10Mg is an aluminum alloy often used for casting and die casting. It exhibits a good strength-to-weight ratio. AM 10Mg demonstrates good high-temperature characteristics, corrosion resistance, and fatigue resistance. It is often used for automotive and aerospace gearboxes, heat sinks, housings, and brackets.

Alloy Highlights

- Low Density
- Good Strength-to-Weight Ratio
- Good Corrosion Resistance
- Good Fatigue Resistance
- Good Thermal Conductivity

| Mechanical Properties (as Sintered) | |
|-------------------------------------|--------------|
| Test | Vertical |
| Tensile Strength | 46 +/-5 ksi |
| Yield Strength | 35 +/- 1 ksi |
| Elongation at break | 2 +/-1% |
| Hardness | 117 HV |
| Density (lb/in ³) | 0.097 |

| Chemistry | | |
|-----------|-----------|-------|
| Element | Range (%) | |
| | Min | Max |
| Al | Balance | |
| Cu | | 0.05 |
| Fe | | 0.55 |
| Mg | 0.2 | 0.45 |
| Mn | | 0.45 |
| Ni | | 0.05 |
| Pb | | 0.05 |
| Si | 9.0 | 11.00 |
| Sn | | 0.05 |
| Ti | | 0.15 |
| Zn | | 0.10 |

Typical Applications

- Automotive
- Aerospace
- Consumer goods

Applicable Chemistry Specifications

UNS A13600 ASTM A03600 DIN 3.2381