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CherryMAX® Rivet CR3212-6-08

CR3212-6-08 is a 3/16" diameter high-strength blind rivet from the CherryMAX® series. It features a 100° flush countersunk head and a mechanically locked stem, making it ideal for aerospace applications with extended grip requirements and blind-side access.

Basic Specifications

- Shank Diameter: 3/16 inch (≈0.187 inch)
- Grip Range: 0.438 – 0.500 inch
- Overall Length: 0.750 – 0.770 inch
- Head Diameter: ≈0.344 inch
- Head Height: ≈0.062 inch
- Head Style: 100° flush countersunk.
- Sleeve Material: Aluminum alloy 5056
- Mandrel Material: Alloy steel 8740, cadmium plated
- Standards Compliance: NAS9302B, MS20600, MIL-SPEC (AS), BACR15FR6
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Guidelines

- Recommended for material stack: 11.13 – 12.7 mm
- Use CR3212-6-07 for thinner assemblies
- Use CR3212-6-09 for thicker assemblies.

Hole and Tooling

- Recommended Hole Diameter: 0.192 – 0.195 inch
- Compatible Tools: Cherry G747, G83, G84, G704B or equivalent
- Minimum Countersink Depth: 0.050 inch
- Head Seat Radius: 0.130 – 0.150 inch
- Installation Air Pressure: 85 – 90 psi
- Typical Installation Time: ≤ 2.0 seconds.

Key Features

- Flush 100° head allows aerodynamic surface finish
- Blind-side installation — no rear access needed
- Mechanical stem lock with audible “click”
- Mandrel remains fully retained — no protruding tail.

Performance

- Shear Strength: up to 68,000 PSI
- Tensile Strength: up to 95,000 PSI
- Operating Temperature Range: -65°F to +250°F (-54°C to +121°C).

Marking and Coating

- Sleeve Finish: anodized (silver) or chromate (gold)
- Mandrel Finish: cadmium-plated, silver-gray
- Typical Markings: CR3212-6-08, AF3212-6-08, NAS9302B-6-08
- Note: Always confirm by part number — not by appearance.

Installation Notes

Slight movement before setting is acceptable
Hole diameter must be within 0.192–0.195 inch
Avoid use of lubricants — may interfere with locking
Use reduced force in composite or thin-layered materials
Ensure tools are clean and calibrated
Click sound confirms stem lock engagement
Stem must be flush with sleeve within ± 0.005 inch.

Advantages

- Long grip blind rivet for high-stress aerospace assemblies
- Fully flush installation with no visible mandrel
- Effective even in oversized or elliptical holes
- Complies with NAS, MS, MIL, BAC aerospace specifications
- Ideal for fast, reliable, one-sided installation
- Lot traceability and certification available upon request.

Note: This technical information is based on the official documentation provided by Cherry Aerospace and is intended solely for reference in product selection and specification.