



# SKYCHARGE

Reliable aviation supplier

## CherryMAX® Rivet CR3212-6-06

CR3212-6-06 is a 3/16" diameter blind rivet from the CherryMAX® series. It features a 100° flush countersunk head and a mechanically locked stem. Designed for aerospace structures, it supports long grip range installations with one-sided access.

### • Basic Specifications

- 
- Shank Diameter: 3/16 inch (≈0.187 inch)
- Grip Range: 0.313 – 0.375 inch
- Overall Length: 0.625 – 0.645 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: 7.95 – 9.5 mm
- Use CR3212-6-05 for thinner stacks
- Use CR3212-6-07 for thicker stacks.

### 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: ≤ 1.8 seconds.

## Key Features

- Flush installation with 100° head
- Blind-side installation — no backside access required
- Mechanically locked stem with audible “click”
- Stem retained inside sleeve, no protruding mandrel.

## 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 Part Numbers: CR3212-6-06, AF3212-6-06, NAS9302B-6-06
- Note: Always confirm by part number, not by color.

## Installation Notes

- Slight pre-installation play is acceptable
- Hole must be within spec (0.192–0.195 inch)
- Do not use lubricants
- Use reduced force in composite materials
- Click confirms stem engagement
- Stem tail must be flush with sleeve  $\pm 0.005$  inch.

## Advantages

- High-strength, fatigue-resistant blind rivet
- Flush surface after installation
- Works in oversized or elliptical holes
- Certified to major aerospace standards
- Traceability and certificates available.

**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.