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CherryMAX® Rivet CR3212-6-07

CR3212-6-07 is a 3/16" diameter blind rivet from the CherryMAX® series. It features a 100° flush countersunk head and a mechanically locked stem. This rivet is designed for structural aerospace applications where extended grip range and blind-side installation are required.

Basic Specifications

- Shank Diameter: 3/16 inch (\approx 0.187 inch)
- Grip Range: 0.376 – 0.437 inch
- Overall Length: 0.687 – 0.707 inch
- Head Diameter: \approx 0.344 inch
- Head Height: \approx 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: 9.55 – 11.1 mm
- Use CR3212-6-06 for thinner assemblies
- Use CR3212-6-08 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: \leq 1.9 seconds.

Key Features

- Flush installation with 100° countersunk head
- Blind-side installation — no rear access required
- Mechanically locked stem with audible and tactile “click”
- Mandrel fully retained inside the sleeve after installation.

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: CR3212-6-07, AF3212-6-07, NAS9302B-6-07
- Note: Always verify by part number — not color alone.

Installation Notes

- Slight play before installation is normal
- Hole must be within 0.192–0.195 inch
- Lubricants are not recommended — may impair locking
- Use reduced force when setting into composite materials
- Tools must be clean and well-calibrated
- Click sound confirms full mechanical lock
- Stem tail must be flush with sleeve within ± 0.005 inch.

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.