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CherryMAX® Rivet CR3213-4-01

CR3213-4-01 is a 1/8" diameter, **universal-head** blind rivet from the CherryMAX® series with a mechanically locked stem. Designed for structural aerospace applications, it provides secure, fatigue-resistant fastening in short grip ranges, where blind-side access is required.

Basic Specifications

- Shank Diameter: 1/8 inch (≈ 0.125 inch)
- Grip Range: 0.032 – 0.062 inch
- Overall Length: 0.215 – 0.240 inch
- Head Style: Universal (Protruding head)
- Head Diameter: ≈ 0.219 inch
- Head Height: ≈ 0.068 inch
- Sleeve Material: Aluminum alloy 5056
- Mandrel Material: Alloy steel 8740, cadmium plated
- Standards Compliance: NAS9301B, MS20470, MIL-SPEC (AS), BACR15FR4
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Guidelines

- Recommended for material stack: 0.8 – 1.57 mm
- Use CR3213-4-00 for thinner assemblies
- Use CR3213-4-02 or longer for thicker joints.

Hole and Tooling

- Recommended Hole Diameter: 0.129 – 0.132 inch
- Compatible Tools: Cherry G27, G747, G704B, or equivalent pneumatic tools
- Installation Air Pressure: 85 – 90 psi
- Typical Installation Time: ≤ 1.3 seconds.

Key Features

Universal (round dome) head for traditional riveted joint appearance
Mechanically locked stem provides vibration-resistant hold
Audible “click” during installation confirms proper locking
Mandrel retained inside sleeve — no tail exposure
Ideal for blind installations in thin sheet assemblies.

Performance

Shear Strength: up to 50,000 PSI
Tensile Strength: up to 75,000 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: CR3213-4-01, AF3213-4-01, NAS9301B-4-01
- Always confirm by part number — not visual color.

Installation Notes

- Slight play before setting is acceptable
- Ensure hole diameter is within 0.129–0.132 inch
- Do not use lubricant — may disrupt stem locking
- Click sound confirms mechanical lock
- Stem tail must sit flush ± 0.005 inch inside sleeve.

Advantages

- Performs reliably in thin-gauge aerospace materials
- Meets NAS, MS, BAC, and MIL aerospace specifications
- Single-side (blind) installation — no rear access required
- Full certification and lot traceability 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.

