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CherryMAX® Rivet CR3213-4-07

CR3213-4-07 is a 1/8" diameter blind rivet from the CherryMAX® series. It features a universal (protruding) head and a mechanically locked stem, providing high-strength fastening in structural aerospace assemblies where blind-side access and extended grip range are required.

Basic Specifications

- Shank Diameter: 1/8 inch (≈ 0.125 inch)
- Grip Range: 0.376 – 0.437 inch
- Overall Length: 0.580 – 0.605 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: 9.55 – 11.1 mm
- Use CR3213-4-06 for thinner materials
- Use CR3213-4-08 or longer for thicker stack-ups.

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: ≤ 1.7 seconds.

Performance

- Shear Strength: up to 50,000 PSI
- Tensile Strength: up to 75,000 PSI
- Operating Temperature Range: -65°F to $+250^{\circ}\text{F}$ (-54°C to $+121^{\circ}\text{C}$).

Marking and Coating

- Sleeve Finish: anodized (silver) or chromate (gold)
- Mandrel Finish: cadmium-plated, silver-gray
- Typical Part Numbers: CR3213-4-07, AF3213-4-07, NAS9301B-4-07
- Always verify part number — not color appearance.

Installation Notes

- Slight pre-installation movement is acceptable
- Hole size must be 0.129–0.132 inch
- Avoid lubrication — may interfere with mechanical lock
- Use reduced force when working with sandwich or composite panels
- Tools should be clean, maintained, and calibrated
- Click sound confirms successful stem engagement
- Stem must be flush with sleeve within ± 0.005 inch.

Advantages

- Extended grip blind rivet with universal head
- No mandrel protrusion — tamper-resistant, flush finish
- Performs consistently in oversized or oval holes
- Certified per NAS, MIL, MS, BAC aerospace fastening standards
- Quick and secure 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.