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CherryMAX® Rivet CR3212-5-07

CR3212-5-07 is a 5/32" diameter blind rivet from the CherryMAX® series, featuring a 100° flush countersunk head and a mechanically locked stem. Engineered for aerospace applications, this rivet supports extended grip ranges while providing secure, tamper-resistant installation from the blind side of structural assemblies.

Basic Specifications

- Shank Diameter: 5/32 inch (\approx 0.156 inch)
- Grip Range: 0.376 – 0.437 inch
- Overall Length: 0.562 – 0.582 inch
- Head Diameter: \approx 0.281 inch
- Head Height: \approx 0.052 inch
- Head Style: 100° flush countersunk
- Sleeve — Aluminum alloy 5056, anodized or chromate coated
- Mandrel — Alloy steel 8740, cadmium plated
- Standards Compliance: NAS9302B, MS20600, MIL-SPEC (AS), BACR15FR5
- Manufacturer: Cherry Aerospace, USA.

Material Thickness Selection Guidelines

- Recommended for material stack thickness between 9.55 – 11.1 mm
- Use CR3212-5-06 or shorter variants for thinner assemblies
- Use CR3212-5-08 or longer variants for thicker applications
- Compatible with Cherry G747, G27, G704B, or equivalent pneumatic tools.

Part Identification and Marking Structure

- CR — CherryMAX series
- 32 — Rivet type
- 12 — 100° flush head configuration
- 5 — Nominal shank diameter 5/32 inch
- 07 — Length code for 0.376 – 0.437 inch grip range.

Key Features and Installation Characteristics

- Flush 100° countersunk head for smooth aerodynamic finish
- Recommended hole diameter: 0.161 – 0.164 inch
- Mechanical stem lock ensures secure fastening with audible “click”
- Mandrel is retained completely within sleeve after installation
- Designed for fast, blind installation without backside access.

Coating and Visual Identification Notes

- Sleeve appearance: gold (chromate) or silver (anodized)
- Mandrel: cadmium-plated, silver-gray color
- Typical markings: CR3212-5-07, AF3212-5-07, NAS9302B-5-07
- Identification must be based on part number, not visual color alone.

Additional Technical Characteristics

- Shear Strength: up to 58,000 PSI
- Tensile Strength: up to 85,000 PSI
- Operating Temperature Range: –65°F to +250°F (–54°C to +121°C)
- Minimum Countersink Depth: 0.040 inch
- Head Seat Radius: 0.110 – 0.130 inch
- Installation Air Pressure: 90 psi nominal
- Typical Installation Time: \leq 1.7 seconds.

Practical Notes from Technician

- Minor free play before installation is acceptable
- Hole diameter must be controlled to 0.161–0.164 inch
- Do not apply lubricants — may disrupt stem locking mechanism
- Use reduced setting force in composite materials
- Tools must be clean and in good condition
- Minimum air pressure: 85 psi
- Click sound confirms stem lock engagement
- 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.