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CherryMAX® Rivet CR3242-6-08

CR3242-6-08 is a 3/16 nominal diameter oversize structural blind rivet from the CherryMAX® series, designed for aerospace applications requiring single-sided (blind) installation and restoration of slightly enlarged or repair holes. The CR3242 family features a 100° flush (countersunk) head with an oversize shank (approximately 1/64 over nominal). The CherryMAX® system uses a mechanically locked stem with a separate locking collar to provide a secure, vibration-resistant joint. A silver-colored driving anvil identifies oversize diameter rivets.

Basic Specifications

- Nominal Diameter: 3/16 in (Diameter Dash -6)
- Shank Diameter (D): 0.201 in (+0.003 / -0.001)
- Head Style: 100° Flush Head (oversize series)
- Head Diameter (A): 0.353 in ± 0.004
- Head Height (B): 0.063 in (ref)
- C (Aluminum): 0.002 – 0.012 in
- P (Min): 0.015 in
- Z (Ref): 0.94 in
- Minimum Blind-Side Clearance (BK min): 0.410 in
- Hole Limits (Min/Max): 0.205 – 0.209 in
- Grip Range (Grip Dash -08): 0.438 – 0.500 in
- Overall Length (L): 0.64 in (+0.000 / -0.030)
- K (Max): 0.89 in
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA.

Materials and Standard Finish Set (example: “ARD”, “A”, “PR”, “T”)

- Sleeve (Body): 5056 Aluminum Alloy (per QQ-A-430)
- Stem: 8740 Alloy Steel (per AMS 6322)
- Lock Collar: A-286 CRES (per AMS 5731 & AMS 5737)
- Sleeve Finish: Chemical film, plain color (per MIL-DTL-5541)
- Stem Finish: Cadmium plate, Type II, Class 2 (per QQ-P-416)
- Lock Collar / Steel Components: Passivated (per AMS 2700)
- Oversize diameter design provides improved hole fill and structural integrity in repair or slightly oversized holes.

Material Thickness Selection Guidelines

- Select CR3242-6-08 when the total material stack thickness falls within 0.438–0.500 in
- CherryMAX® grip dash numbers indicate maximum grip in 1/16 increments (- 08 = max grip 8/16 = 0.500 in)
- For best performance, total stack thickness must be within the specified grip range and hole size must meet the recommended limits.

Part Identification and Marking Structure

- CR3242 — CherryMAX® rivet family: oversize shank, 100° flush head, locked spindle
- -6 — diameter dash number (nominal diameter in 1/32 increments; -6 = 3/16)
- -08 — grip dash number (maximum grip in 1/16 increments)
- A silver-colored driving anvil identifies oversize diameter; head markings and the visible locking collar remain accessible after installation, supporting visual inspection and quality control.

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.