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CherryMAX® Rivet CR3213-5-11

CR3213-5-11 is a 5/32" (-5) nominal diameter CherryMAX® universal-head (button head) blind rivet designed for high-strength structural fastening where access is available from one side. The CherryMAX® system uses a “safe-lock” locking collar that mechanically locks the stem to the sleeve during installation, and correct installation can be visually assessed from the visible side (stem flushness + locking collar formation).llation), this rivet provides durable, vibration-resistant fastening in critical assemblies.

Basic Specifications

- Shank / Rivet Diameter (D): 0.157" (+0.003/-0.001) (nominal 5/32")
- Grip Range (material stack): 0.626" – 0.687" (≈ 15.9 – 17.45 mm)
- Overall Length (L): 0.763" – 0.793" (L = 0.793" +0/-0.030) (≈ 19.38 – 20.14 mm)
- Head Diameter (A): 0.312" ± 0.010 (≈ 0.302" – 0.322")
- Head Height (B): 0.067" +0.010/-0.000 (≈ 0.067" – 0.077")
- Head Style: Universal head (protruding/button head)
- Minimum blind side clearance (BK min): 0.370"
- Hole limits (-5 diameter): 0.160" – 0.164" (typical drill reference #20)
- Standards / cross reference: CR3213 corresponds to NAS9301B (universal head, nominal).

Materials & Finishes (typical for CR3213 family)Material

- Sleeve: 5056 Aluminum (QQ-A-430)
- Stem: 8740 Steel (AMS6322)
- Lock collar: A-286 CRES (AMS5731 / AMS5737)
- Standard finish (---): sleeve chemical film (MIL-DTL-5541, plain color), stem cadmium plate (AMS-QQ-P-416 Type II, Class 2), collar passivate (AMS2700).

Key Features and Installation Characteristics

- The CherryMAX® rivet uses a locking collar that mechanically locks the stem to the sleeve during installation
- Installation sequence (high level): stem pull forms the blind-side bulb; the locking collar is set and fills the head recess; the stem breaks and the top portion is discarded
- Correct installation can be assessed from the visible side via stem flushness and locking collar formation.

Official technical specifications

- Minimum tensile strength (CR3213, 5/32 dia): 445 lbs.
- Minimum ultimate single shear strength for CR3213, 5/32 dia: up to 1545 lbs at the highest listed grips; for grips greater than those listed, Cherry instructs to use the highest value shown for that diameter/class/type. (So CR3213-5-11 uses the same “highest shown” value for 5/32" CR3213.)
- Standard material/finish set (ARN): sleeve chemical film (plain color) per MIL-DTL-5541; stem cadmium plate per AMS-QQ-P-416 Type II Class 2; lock collar passivated per AMS 2700
- Always verify the complete part number and finish code; visual color may vary by finish and supply chain handling.

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.