

# HANDOUT 18 AIRCRAFT Nut & Bolt DATA

## AN 3 - AN 20 AIRFRAME BOLTS

The most commonly available aircraft-spec bolts, these hex head, fine thread fasteners have a tensile strength of 125,000 PSI and a shear strength of 76,000 PSI. Length of thread is consistent in each diameter and grips (unthreaded shank) are available from 1/16" to 6" in 1/8" increments. Vastly superior to "Grade 8" tension bolts, they are suitable for almost all race car applications.

## NAS 1100 AND NAS 1300 SERIES CLOSE TOLERANCE BOLTS

These fine threaded, reduced-head hex bolts have a tensile strength of 160,000 PSI and a shear strength of 96,000 PSI. Thread length is consistent for each diameter (1100 series has shorter thread) and grips are available in 1/16" increments from 1/16" to 8". Used in close tolerance applications where a premium quality high strength bolt is necessary.

## AN 364/365 NYLON INSERT LOCKNUTS

These are the most common and inexpensive self-locking aircraft nuts. Almost infinitely reusable, tensile strength rated at 125,000 PSI with a 250°F temperature rating.

## AN 315/316 NON-LOCKING CHECKNUTS (JAMNUTS)

These low profile nuts are used to lock rod ends and other threaded components into position. Available in right and left handed threads. Gold cad plated steel.

## MS 21042/NAS 1291 REDUCED DIMENSION ALL METAL LOCKNUTS (JETNUTS AND KAYNUTS)

These nuts feature a good combination of light weight, high strength (160,000 PSI tensile) and reduced wrench access. Available in steel (450°F), stainless (900°F) and some metric sizes (steel only).





