

Some Different Airspeeds

You should already know the differences between various airspeeds, but here they are again:

INDICATED AIRSPEED (IAS)

The airspeed indicator reading uncorrected for instrument, position and other errors.

CALIBRATED AIRSPEED (CAS)

This is indicated airspeed corrected for instrument errors, position error (due to incorrect pressure at the static port) and installation errors.

EQUIVALENT AIRSPEED (EAS)

The speed at sea level that would produce the same incompressible dynamic pressure as the true airspeed at the altitude at which the vehicle is flying. At standard sea level pressure, calibrated airspeed and equivalent airspeed are equal.

TRUE AIRSPEED (TAS)

This is EAS corrected for pressure altitude and temperature (which define density). The result is the true physical speed of the aircraft through the atmosphere. True airspeed is equal to both CAS and EAS at sea level and in standard conditions.

