



TEST REPORT DHV 03 ADVANCE ALPHA 4 31

Type Advance Alpha 4 31
Certificate-No DHV GS-01-1658-07
Holder of certificate [ADVANCE Thun AG](#)
Manufacturer [ADVANCE Thun AG](#)
Classification 1 GH
Winch tow Yes
Number of seats min / Number of seats max 1 / 1
Accelerator? Yes
Trimmers? No



| | BEHAVIOUR AT MIN WEIGHT IN FLIGHT(96 KG) | BEHAVIOUR AT MAX WEIGHT IN FLIGHT(130 KG) |
|-----------------------------------|--|---|
| Take off | 1 | 1 |
| Inflation | evenly, immediately | evenly, immediately |
| Rising behaviour | immediately comes over pilot | immediately comes over pilot |
| Take off speed | slight | slight |
| Take off handling | easy | easy |
| Straight flight | 1 | 1 |
| Roll damping | high | high |
| Turn handling | 1 | 1 |
| Spin tendency | not available | not available |
| Control travel | high | high |
| Agility | average | average |
| Symmetric stall | 1 | 1 |
| Deep-stall limit | late > 75 cm | late > 75 cm |
| Full stall limit | late > 80 cm | late > 80 cm |
| Increase in steering power | high | high |
| Front collapse | 1 | 1 |
| Pre-acceleration | slight | slight |
| Opening behaviour | spontaneous, quickly | spontaneous, quickly |
| Asymmetric collapse | 1 | 1 |
| Turn tendency | < 90 degrees | < 90 degrees |
| Change of course | < 90 degrees | 90 - 180 degrees |
| Rate of turn | slight | slight |
| Max. roll/pitch angle | less than 45 degrees | less than 45 degrees |
| Loss of altitude | slight | slight |

| | | |
|---|--------------------------------------|--------------------------------------|
| Stabilization | spontaneous | spontaneous |
| Opening behaviour | spontaneous, quickly | spontaneous |
| Countersteering an asymmetric collapse | 1 | 1 |
| Stabilization | spontaneous | spontaneous |
| Control travel | high | high |
| Control pressure increase | high | high |
| Turn in opposite direction | easy, no tendency to stall | easy, no tendency to stall |
| Opening behaviour | spontaneous, quickly | spontaneous, quickly |
| Full stall, symm. exit | 1 | 1 |
| Spin out of straight flight | 1 | 1 |
| Spin out of turn | 1 | 1 |
| Spiral dive | 1 | 1 |
| Entry | easy | easy |
| Spin tendency | not available | not available |
| Exit | turn continues through < 180 degrees | turn continues through < 180 degrees |
| Sink rate after 720 ° | 10 [m/s] | 10 |
| B-line stall | 1 | 1 |
| Entry | easy | easy |
| Exit | spontaneous | spontaneous |
| Big ears | 1 | 1 |
| Entry | easy | easy |
| Recovery | spontaneous, quickly | spontaneous, quickly |
| Landing | 1 | 1 |
| Landing behaviour | easy | easy |
| Front collapse (accelerated) | 1 | 1 |
| Pre-acceleration | slight | slight |
| Opening behaviour | spontaneous, quickly | spontaneous, quickly |
| Asymmetric collapse (accelerated) | 1 | 1 |
| Turn tendency | < 90 degrees | < 90 degrees |
| Change of course | < 90 degrees | 180 - 360 degrees |
| Rate of turn | slight | slight |
| Max. roll/pitch angle | less than 45 degrees | less than 45 degrees |
| Loss of altitude | slight | slight |
| Stabilization | spontaneous | spontaneous |
| Opening behaviour | spontaneous, quickly | spontaneous |
| Big ears accelerated | 1 | 1 |
| Entry | easy | easy |
| Recovery | spontaneous, quickly | spontaneous, quickly |
| Supplementary remarks | | |