



Coefficient of Drag

Aerospace Rocketry
Aerodynamic Engineering

Interval 1

The coefficient of drag is complex to calculate and is dependent upon several factors. The mathematics required to calculate the coefficient of drag for the rocket you create is beyond the scope of this Suite. Estimates of the coefficient of drag can be made accurately enough for the purpose of the activities in this Suite. The table below gives estimates for the coefficient of drag based on the total drag values determined in the vertical wind tunnel.

Total Drag Value from Vertical Wind Tunnel	Estimated Coefficient of Drag
0 - 2	0.1
2.01 - 4	0.2
4.01 - 6	0.3
6.01 - 9	0.4
9.01 - 13	0.5
13.01 - 17	0.6
17.01 - 21	0.7
21.01 - 27	0.8
27.01 - 33	0.9
33.01+	1.0