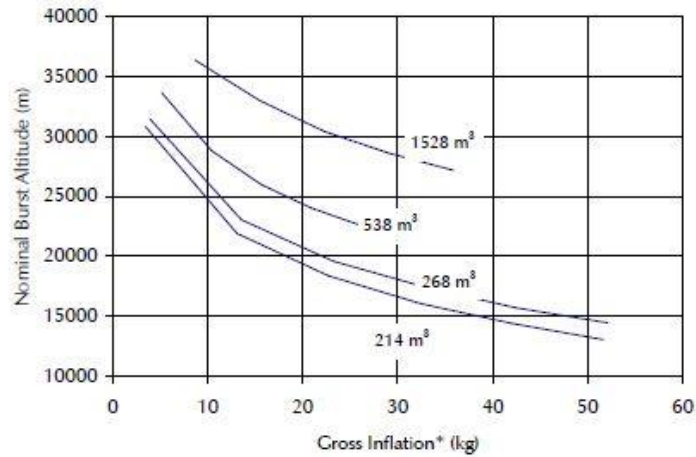
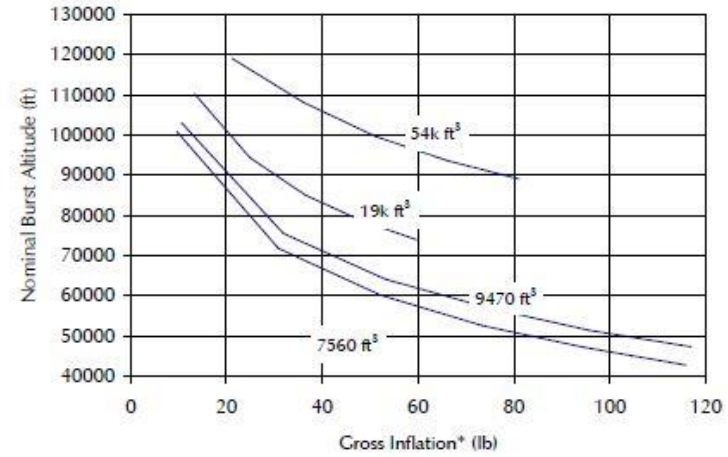


Sounding Balloon Performance Curves

7.6 μ Film Thickness



0.3 mil Film Thickness



Balloon Weights:

Volume m ³	Balloon Weight	Max Payload
	Kg	Kg
214	2.5	38.5
268	2.9	38.5
538	3.4	17.2
1528	6.2	22.2

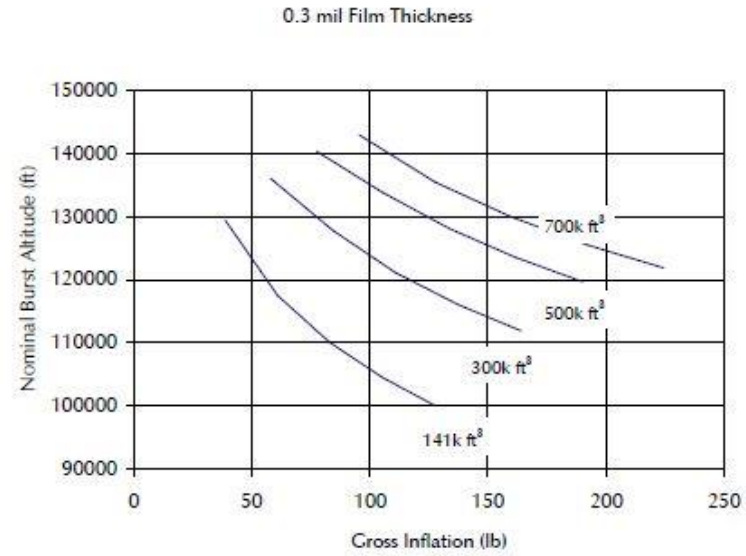
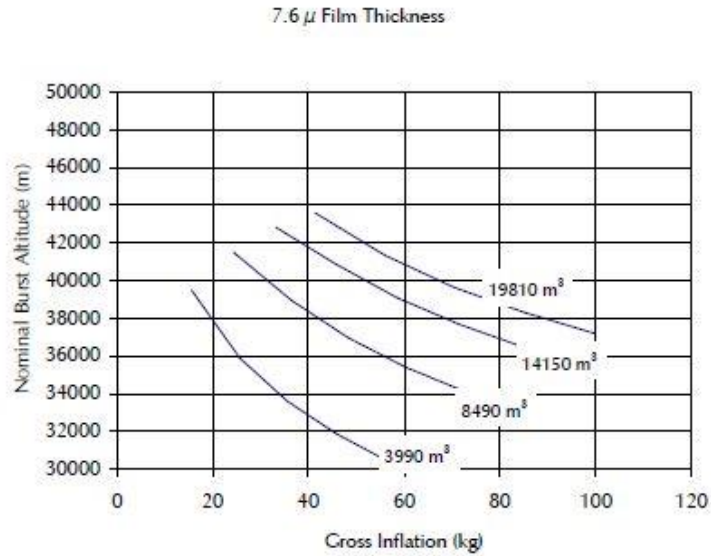
Volume ft ³	Balloon Weight	Max Payload
	lb	lb
7560	5.5	85
9470	6.3	85
19000	7.5	38
54000	13.6	49

* Note: Sounding balloons are designed to rise until bursting. The bursting height is determined by the amount of helium in the balloon and the full volume of the balloon. The amount of helium is commonly referred to as the Cross Inflation (CI). For most flights:
 $CI = (\text{payload wt} + \text{balloon wt}) * 1.2$

Rev.

17-Feb-05

Sounding Balloon Performance Curves



Balloon Weights:

Volume m ³	Balloon Weight		Max Payload Kg
	Kg		
3990	11.4		32.7
8490	18.3		39.0
14150	25.5		41.3
19810	32.1		47.2

Volume ft ³	Balloon Weight		Max Payload lb
	lb		
141000	25.2		72
300000	40.4		86
500000	56.2		91
700000	70.7		104

* Note: Sounding balloons are designed to rise until bursting. The bursting height is determined by the amount of helium in the balloon and the full volume of the balloon. The amount of helium is commonly referred to as the Gross Inflation (CI). For most flights:

$$CI = (\text{payload wt} + \text{balloon wt}) * 1.2$$

Rev.

17-Feb-05