System requirement-measurements for Cryogenic Tank

		Units	in	in	lb	atm	y/n	$	K	% (hours of manufacturing)	$	cubic cm
		Performance measures	Tank Length	Tank Diameter	Tank Weight	Burst Pressure	Evidence of microcrack	Cost of tank after development	External Tank Temperature	Percentage of tank manufactured at PSU	Cost of machined parts	Working Volume
	Target design requirements for Cryo-Tank		2	3	4	5	6	7	8	9	10	11
1	The Tank can hold liquid oxygen without bursting into flames	10				x	x					x
2	The Tank is affordable	7	x	x	x			x		x	x	
3	The Tank is reproducable	9	x	x				x		x	x	
4	The Tank doesn't leak	10				x	x		x			
5	The Tank weighs less than conventional aluminum tank	9			x							x
6	The Tank shall withstand strains resulting from temperature, pressure, and vehicle body loads	10	x	x	x	x			x			x
7	The Tank is scalable for larger rocket design	10	x	x	x			x		x	x	x
			36	36	36	30	20	26	20	26	26	29
		Lower Acceptable	8.75	4	1	3	Composite material microcracks but doesn't cause tank failure during flight	-	274	50	-	72
		Ideal	-	-	2	4.5	Composite material doesn't microcrack at cryogenic temperature	0	300	100	0	-
		Upper Acceptable	13.00	6	3.5	-	-	1000	-	-	2000	194