





 Solid Rocket Motors Compared to LREs 	
Simple (less system components)	Lower Isp
Reliable (few moving parts)	Harder to test (no subcomponent tests) and sensitive to environmental temp.
Reduced storage volume (high ρ)	Hard to actively throttle
Storable (especially compared to cryogenics)	Manufacturing defects (e.g., cracks) and degradation at extreme storage conditions
Easier to start (vs. pump fed LREs)	No restarts
Easily(?) scalable (to high and low thrust)	Emissions (HCl and chlorinated compounds) and signature (smoke) for popular propellants



















































