

Adiabatics has tested low temperature application Diamond Like Carbon (DLC) and Silicon Carbide films applied by Chemical Vapor Deposition (CVD) films for use in Low Heat Rejection diesel engines. These thin films have a limitless number of uses. All thin films are NOT alike. Through our research & development efforts, we make available what we believe to be the best most cost effective thin film solutions to a wide range of problems.

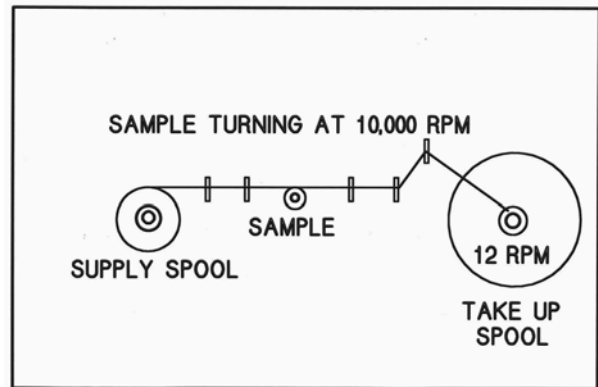
In addition to CVD films, we market high temperature capable polymer films for protection against heat and corrosion. Polymer films can also be used in conjunction with other types of coating technology.



Al₂O₃ Thread Guide Test Sample
(after 80,000,000 feet)

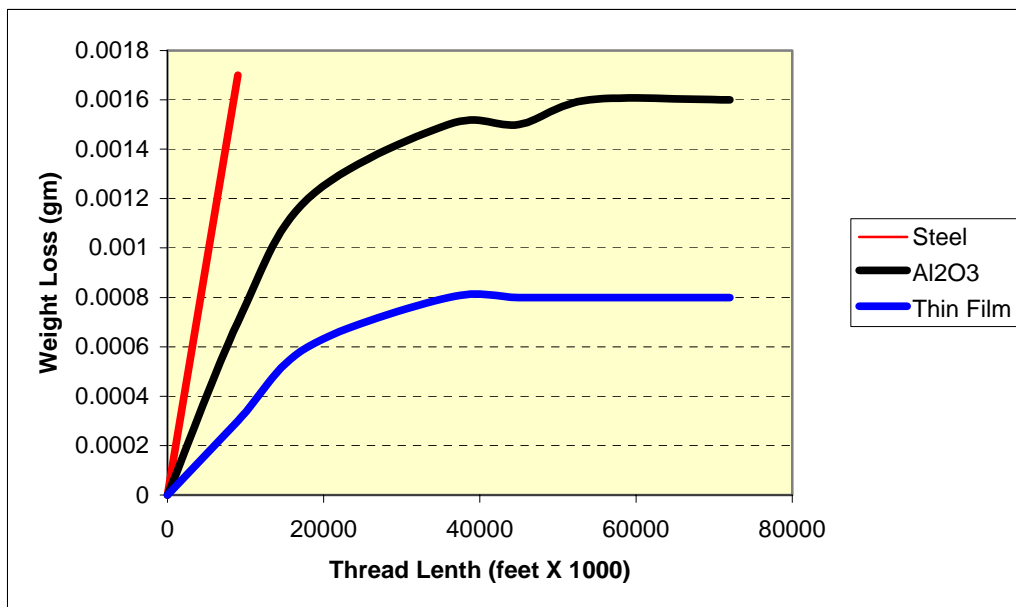


Thin Film Coated Steel Test Sample
(after 80,000,000 feet)



Schematic of Test used to Compare Thin Film Friction and Wear Coating to an Aluminum Oxide Test Sample. Thread speed is 1450 feet per minute, Thread is Wrapped Around Test Sample.

Both samples appear to be in excellent condition. The thin film coated steel sample is a cost effective alternative solution to the current state of the art ceramic thread guides.



Data comparing Steel Test Sample to Al₂O₃ to Thin Film Coating.