



FALEX PIN AND VEE BLOCK TEST WITH COEFFICIENT OF FRICTION  
 ASTM D-3233  
 1/15/2007

TREAT LEVEL	<u>AR9100 Nanoborate</u>			SLICK 50 Teflon			PERCENT BETTER
	3.5 % IN 100 NEUTRAL			ADDITIVE NEAT FROM BOTTLE			
	<u>LOAD</u>	<u>TORQUE</u>	<u>COF</u>	<u>LOAD</u>	<u>TORQUE</u>	<u>COF</u>	
	500	12	0.0713	500	12	0.0713	0.0%
	1000	19	0.0585	1000	20	0.0654	10.6%
	1500	24	0.0476	1500	30	0.0595	20.0%
	2000	31	0.0461	2000	39	0.058	20.5%
	2500	35	0.0416	2500	47	0.0535	22.2%
	3000	38	0.0377	FAIL			INFINITY
	3500	43	0.0365				INFINITY
	3750	47	0.0373				INFINITY
	4000	FAIL					

THIS ANALYSIS WAS DONE TO GIVE THE TEFLON ADDITIVE THE BEST POSSIBLE RESULT VS AR9100. IF THE TEFLON ADDITIVE WAS TREATED AT ITS USE LEVEL, THE RESULT WOULD BE MORE DRAMATIC