

CASE STUDY

FALEX PIN AND VEE BLOCK TEST WITH COEFFICIENT OF FRICTION ASTM D-3233

ARCHOIL AR9100 vs SLICK 50

PRODUCTS TESTED

Archoil AR9100 Nanoborate Oil Treatment
(Friction Modifier)



AR9100 NANOBORATE			SLICK 50 TEFLON			BETTER PERCENT	
TREAT LEVEL	3.5 % IN 100 NEUTRAL		ADDITIVE NEAT FROM BOTTLE				
	LOAD	TORQUE	COF	LOAD	TORQUE	COF	
	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					INFINITY

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.