



RK NORTHWEST REFINING & ENERGY COMPANY BITUMEN EVALUATION DEPARTMENT

Bitumen PG 46-xx										Test Method	Unit	Test
PG - 52					PG - 46					D6373	-	Degree of performance
-46	-40	-34	-28	-22	-16	-10	-46	-40	-34			
52>					46>					-	(^o C)	Highest Pavement (The average 7 days)
-46<	-40<	-34<	-28<	-22<	-16<	-10<	-46<	-40<	-34<	-	(^o C)	Lowest Pavement Temperature
Bitumen before aging												
Min 230										INSO 198	(^o C)	Flash point
max 3										ASTM D4402	@ 135 ^o C . Pa.S	Rotational viscosity (RV)
52					46					ASTM D7175	Test temperature. (^o C)	Dynamic Shear Rheometer (DSR)
-					min 1						G* / sin δ . KPa	
Rolling Thin-Film Oven Test (RTFOT)												
max 1										INSO 11898	%	Weight change
52					46					ASTM D7175	Test temperature. (^o C)	Dynamic Shear Rheometer (DSR)
-					min 2.2						G* / sin δ . KPa	
Pressurized Aging Vessel (PAV)												
90										ASTM D6521	(^o C)	Aging temperature
7	10	13	16	19	22	25	4	7	10	ASTM D7175	Test temperature. (^o C)	Dynamic Shear Rheometer (DSR)
-							max 5000				G* . sin δ . KPa	
-36	-30	-24	-18	-12	-6	0	-36	-30	-24	ASTM D6648	Test temperature. (^o C)	Bending Beam Rheometer (BBR)
-							max 300				S@ 60 s , MPa	
-							min (0.3)				m	

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