



RK NORTHWEST REFINING & ENERGY COMPANY BITUMEN EVALUATION DEPARTMENT

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

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