



**RK NORTHWEST REFINING & ENERGY COMPANY  
BITUMEN EVALUATION DEPARTMENT**

**Emulsion Bitumen CMS-2**

Cationic Emulsified Asphalt		Test / Method		Acceptable range	
		ASTM	INSO	min	max
		D2397	12505-7		
1	Viscosity by Saybolt Furol Viscometer@ 50 °C,SFS	D7496	20644	50	450
2	Storage Stability@ 24hr,%	D6930	20637	-	1
3	Evaluating Aggregate Coating and water resistance				
3-1	Coating ,dry Aggregate	D244	20640	good	-
3-2	Coating ,after spraying water			Average	-
3-3	Coating , wet Aggregate			Average	-
3-4	Coating ,after spraying water			Average	-
5	Determine the particle load	D7402	20642	Positive	
6	Sieve Test,%	D6933	20638	-	0.1
7	Distillation				
7-1	The oily product obtained from distillation relative to the volume of emulsion,%	D6997	13580	-	12
7-2	distillation residue,%			65	-
8	Test on distillation residue				
8-1	Penetration @ 25 °C ( 100 gr. 5s ),10 <sup>-1</sup> mm	D5	2950	100	250
8-2	Ductility @ 25 °C ( 5 cm/min ), Cm	D113	3866	40	-
8-3	Solubility in trichloroethylene, wt%	D7553	2953	97.5	-